Form 3160-3 (September 2001)			OMB No. 1004-	0136	
UNITED STATES	5		Expires January 3	1, 2004	
DEPARTMENT OF THE I	5. Lease Serial No.				
BUREAU OF LAND MANA					
APPLICATION FOR PERMIT TO DI	6. If Indian, Allottee or Tr	ibe Name			
			N/A		
1a. Type of Work: DRILL REENTE	R		7. If Unit or CA Agreement, Name and No.		
	•		Humpback Unit		
1b. Type of Well:  Oil Well  Gas Well  Other	Single Zone Multi	-1- 7			
2. Name of Operator		8-17			
Newfield Production Company				9970	
3a. Address	3b. Phone No. (include area code)		UTU-45431  6. If Indian, Allottee or Tribe Name N/A  7. If Unit or CA Agreement, Name and No. Humpback Unit  8. Lease Name and Well No. Humpback Federal T-23-8-17  9. API Well No.  43-047-39970  10. Field and Pool, or Exploratory Monument Butte  11. Sec., T., R., M., or Blk. and Survey or Area  Sec. 23, T8S R17E  12. County or Parish Uintah UT  13. State UIntah UT  20 Acres  BIA Bond No. on file  NYB000493  23. Estimated duration Approximately seven (7) days from spud to rig release.		
Route #3 Box 3630, Myton UT 84052	(435) 646-3721		Monument Butte		
4. Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., T., R., M., or Blk. a	nd Survey or Area	
At surface SE/SE 800' FSL 660' FEL  At proposed prod. zone 1435' FSL 55' FEL NESE			Sec. 23, T8S R17E	Ē	
14. Distance in miles and direction from nearest town or post office*			12 County or Parish	13 State	
Approximatley 13.3 miles southeast of Myton, Utah			· ·	i i	
15. Distance from proposed*	16. No. of Acres in lease	17 Spacin		1 01	
location to nearest property or lease line, ft.	16. 146. 61 Pictos in lease	i i i . Spaciii	g Offit dedicated to dis well		
(Also to nearest drig. unit line, if any) Approx. 1265' f/lse, 1265' f/unit	548.31	ļ	20 Acres		
18. Distance from proposed location*	19. Proposed Depth	20. BLM/I	BIA Bond No, on file		
to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1257'					
applied for, of this lease, it. Applox. 1257	6680'	v	VYB000493		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	rt*	23. Estimated duration		
5067' GL	2 nd Quarter 2008		Approximately seven (7) days from sput	I to rig release.	
	24. Attachments				
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be att	ached to this	form:		
1. Well plat certified by a registered surveyor.	4. Bond to cover the	ne operation	as unless covered by an existing	g bond on file (see	
2. A Drilling Plan.	Item 20 above).				
<ol> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	Lands, the 5. Operator certification 6. Such other site		ormation and/or plans as may	be required by the	
3010 shan be thed with the appropriate Potest Service Office).	authorized office	r.		. ,	
25. Signature	Name (Printed/Typed)		! Date		
Mandie (usus	Mandie Crozier		3/14	1/08	
Title		_			
Regulatory Specialist			. 1		
Approved by Digniture	Name (Printed/Typed) G.	1	Date		
Drack of LV	DOADLEY G.	HILL	:O3	5-31-08	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Title

Sur \$ 588149 X State 

Federal Approval of the Action is Necessary

44389764

40.09836 -109.96587

BHU 588333X

44391697

40.10007 -109.96369

OFFICE VIRONMENTAL MANAGER

RECEIVED

MAR 1 8 2008

DIV. OF OIL, GAS & MINING

#### T8S, R17E, S.L.B.&M. NEWFIELD PRODUCTION COMPANY N80°20'W - 80.35 (G.L.O.) WELL LOCATION, HUMPBACK T-23-8-17, Old Indian Treaty Boundary N89°53'00"E LOCATED AS SHOWN IN THE SE 1/4 SE 2512.33' (Meas. to C.C.) N80°06'W - 80.03 (G.L.o.) 1910 cc 1/4 OF SECTION 23, T8S, R17E, Brass Cap Brass Cap S.L.B.&M. UINTAH COUNTY, UTAH. 1910 cc Brass Cap Lot 3 Lot 2 Lot 1 Lot 4 2639. WELL LOCATION: SCALE BAR HUMPBACK T-23-8-17 ELEV. EXIST. GRADED GROUND = 5067 Note: (G.L.O.) 1. The bottom of hole footages 1910 are 1435' FSL & 55' FEL. Brass Cap NO.01 1910 Brass Cap **Bottom** PREPARED FROM FIELD OF ACTION OF ACT THIS IS TO CERTIFY THATOF of Hole THE SAME ARE TRUE AND SORRECT TO MY KNOWLEDGE AND SORRECT TO MY KNOWLEDGE AND SPLIE No.189377 DRILLING WINDOW 54 STACY W. V00°05'. Тор of Hole 1910 1910 Brass Cap Brass Cap S89°49'51"W - 2641.34' (Meas.) S89°01'17"W - 2631.66' (Meas.) TRI STATE LAND SURVEYING & CONSULTING Brass WEST - 79.88 (G.L.O.) 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501HUMPBACK T-23-8-17 DATE SURVEYED: SURVEYED BY: D.G. = SECTION CORNERS LOCATED (Surface Location) NAD 83 12-20-07 $LATITUDE = 40^{\circ} 05' 54.50"$ DATE DRAWN: DRAWN BY: F.T.M. BASIS OF ELEV: 01 - 03 - 07LONGITUDE = 109°58'00.09'REVISED: U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW) SCALE: 1" = 1000'02-15-08 L.C.S.

### NEWFIELD PRODUCTION COMPANY HUMPBACK FEDERAL #T-23-8-17 AT SURFACE: SE/SE SECTION 23, T8S, R17E UINTAH COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### DRILLING PROGRAM

#### 1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta 0' – 1939' Green River 1939' Wasatch 6680'

#### 3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1939' - 6680' - Oil

#### 4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

#### 6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

#### 7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

#### 8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

#### 9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

### 10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

## NEWFIELD PRODUCTION COMPANY HUMPBACK FEDERAL #T-23-8-17 AT SURFACE: SE/SE SECTION 23, T8S, R17E UINTAH COUNTY, UTAH

#### ONSHORE ORDER NO. 1

### MULTI-POINT SURFACE USE & OPERATIONS PLAN

#### 1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Humpback Federal #T-23-8-17 located in the SE 1/4 SE 1/4 Section 23, T8S, R17E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly -6.8 miles  $\pm$  to it's junction with an existing dirt road to the east; proceed in a easterly direction -5.1 miles  $\pm$  to it's junction with the beginning of the access road to the existing Humpback 16-23-8-17 well location.

#### 2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Humpback 16-23-8-17 well pad. See attached **Topographic Map "B"**.

#### 3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

The proposed well will be drilled directionally off of the Humpback 16-23-8-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Humpback Federal T-23-8-17. All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

#### 5. LOCATION AND TYPE OF WATER SUPPLY

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District Water Right: 43-10136

Neil Moon Pond

Water Right: 43-11787

Maurice Harvey Pond Water Right: 47-1358

Newfield Collector Well

Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).



#### 6. SOURCE OF CONSTRUCTION MATERIALS

The proposed Humpback Federal T-23-8-17 will be drilled off of the existing Humpback 16-23-8-17 well pad. No additional surface disturbance will be required for this location.

#### 7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

#### 8. <u>ANCILLARY FACILITIES</u>

Please refer to the Monument Butte Field SOP.

#### 9. <u>WELL SITE LAYOUT</u>

See attached Location Layout Diagram.

#### 10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

#### SURFACE OWNERSHIP - Bureau Of Land Management (Proposed location and access roads leading to).

#### 12. OTHER ADDITIONAL INFORMATION

#### Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

#### Threatened, Endangered, And Other Sensitive Species

None for the proposed Humpback Federal T-23-8-17.

#### Reserve Pit Liner

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

#### **Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Squirrell Tail	Elymus Elymoides	3 lbs/acre
Siberian Wheatgrass	Agropyron Fragile	1 lbs/acre
Gardner Saltbush	Atriplex Gardneri	0.5 lbs/acre
Shadscale	Atriplex Confertifolia	0.5 lbs/acre
Fourwing Saltbush	Atriplex Canescens	0.5 lbs/acre
Scarlet Globemallow	Sphaeralcea Conccinea	0.10 lbs/acre

#### **Details of the On-Site Inspection**

The proposed Humpback Federal T-23-8-17 was on-sited on 2/28/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production), Michael Cutler (Bureau of Land Management), and Dave Gordon (Bureau of Land Management). Weather conditions were clear and ground covered by snow.

# <u>LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION</u> Representative

Name:

Kevan Stevens

Address:

Route #3 Box 3630

Myton, UT 84052

Telephone:

(435) 646-3721

#### **Certification**

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #T-23-8-17 Section 23, Township 8S, Range 17E: Lease UTU-45431 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3/14/08 Date

Mandie Crozier Regulatory Specialist

**Newfield Production Company** 



Project: Uintah County, UT NAD83 UTC

Site: Humpback

Well: Humpback T-23-8-17

Wellbore: OH Design: Plan #1





Azimuths to True North Magnetic North: 11.69

> Magnetic Field Strength: 52667.1snT Dip Angle: 65.95 Date: 2008-02-25

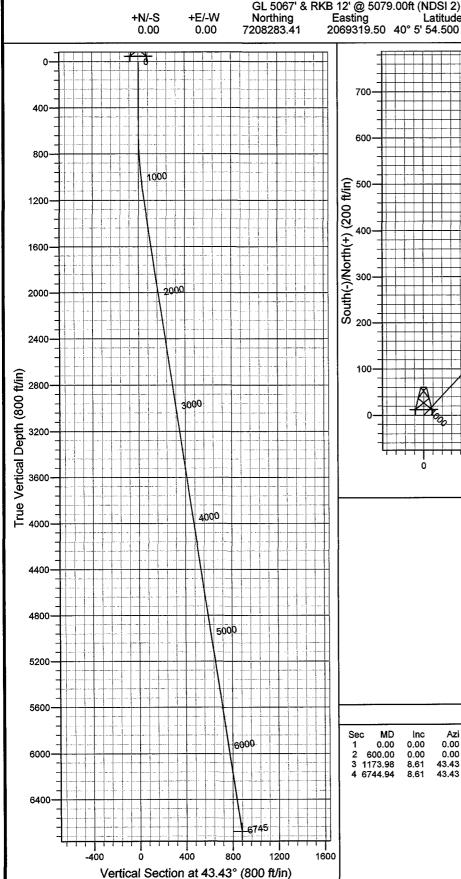
Model: IGRF2005-1

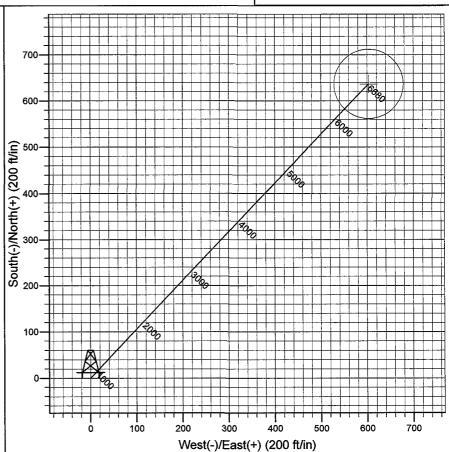
#### WELL DETAILS: Humpback T-23-8-17

Easting 2069319.50

Latitude 40° 5' 54.500 N

5067.00 Longitude 109° 58' 0.090 W





Plan: Plan #1 (Humpback T-23-8-17/OH)

Created By: Julie Cruse Date: 2008-02-25

PROJECT DETAILS: Uintah County, UT NAD83 UTC

Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980

Zone: Utah Central Zone Location:

System Datum: Mean Sea Level Local North: True North

#### SECTION DETAILS

Sec	: MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600,00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	1173.98	8.61	43.43	1171.82	31.26	29.59	1.50	43.43	43.04	
4	6744.94	8.61	43.43	6680.00	636.91	602.93	0.00	0.00	877.03	H T-23-8-17 PBHL

# **Newfield Exploration Co.**

Uintah County, UT NAD83 UTC Humpback Humpback T-23-8-17 OH

Plan: Plan #1

# **Standard Planning Report**

25 February, 2008

#### **Scientific Drilling**

#### Planning Report

Database:

EDM 2003.16 Single User Db

Company:

Newfield Exploration Co. Uintah County, UT NAD83 UTC

Project:

Humpback

Site: Well: Humpback T-23-8-17

Wellbore: Design:

ОН Plan #1 Local Co-ordinate Reference:

**Survey Calculation Method:** 

TVD Reference: **MD Reference:** 

Well Humpback T-23-8-17

GL 5067' & RKB 12' @ 5079.00ft (NDSI 2) GL 5067' & RKB 12' @ 5079.00ft (NDSI 2)

North Reference:

Minimum Curvature

**Project** 

Uintah County, UT NAD83 UTC

Map System: Geo Datum:

US State Plane 1983

North American Datum 1983

Utah Central Zone

System Datum:

Mean Sea Level

Map Zone: Site

Humpback

Site Position:

Lat/Long

Northing: Easting:

7,205,829.64 ft

Latitude:

40° 5' 29.840 N

From: **Position Uncertainty:** 

0.00 ft

Slot Radius:

2,071,750.01 ft

Longitude:

109° 57' 29.360 W

**Grid Convergence:** 

0.99

Well

Humpback T-23-8-17, 800' FSL 660' FEL Sec 23 T8S R17E

Well Position

+N/-S +E/-W 0.00 ft 0.00 ft

Northing: Easting:

7,208,283,41 ft 2,069,319.50 ft

Latitude: Longitude:

40° 5' 54.500 N 109° 58' 0.090 W

**Position Uncertainty** 

0.00 ft

Wellhead Elevation:

**Ground Level:** 

5,067.00 ft

Wellbore

ОН

Magnetics

**Model Name** 

Sample Date

Declination

**Dip Angle** (°)

Field Strength

(nT)

IGRF2005-10

2008-02-25

11.69

65.95

52,667

Design

Plan #1

**Audit Notes:** 

Version:

Phase:

PLAN

Tie On Depth:

0.00

+N/-S

+E/-W

Direction

**Vertical Section:** 

Depth From (TVD) (ft) 0.00

(ft) 0.00

(ft) 0.00

(°) 43.43

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate	TFO	
(ft)	(°)	O	(ft)	<b>(ft)</b>	(ft)	(710010)	(710016)	(°/100ft)	(°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,173.98	8.61	43.43	1,171.82	31.26	29.59	1.50	1.50	0.00	43.43	
6,744.94	8.61	43.43	6,680.00	636.91	602.93	0.00	0.00	0.00	0.00	H T-23-8-17 PBHL

#### **Scientific Drilling**

Planning Report

Database:

EDM 2003.16 Single User Db

Company: Project:

Newfield Exploration Co. Uintah County, UT NAD83 UTC

Site: Well: Humpback

Humpback T-23-8-17 Wellbore: ОН Design: Plan #1

Local Co-ordinate Reference:

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well Humpback T-23-8-17

GL 5067' & RKB 12' @ 5079.00ft (NDSI 2) GL 5067' & RKB 12' @ 5079.00ft (NDSI 2)

Minimum Curvature

ned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0,00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600,00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	1.50	43.43	699.99	0.95	0.90	1.31	1.50	1.50	0.00
800.00	3.00	43.43	799.91	3.80	3.60	5.23	1.50	1.50	0.00
900.00	4.50	43.43	899.69	8.55	8.09	11.77	1.50	1.50	0.00
1,000.00	6.00	43.43	999.27	15.20	14.39	20.92	1.50	1.50	0.00
1,100.00	7.50	43.43	1,098.57	23.73	22.47	32.68	1.50	1.50	0.00
1,173.98	8.61	43.43	1,171.82	31.26	29.59	43.04	1.50	1.50	0.00
1,200.00	8.61	43.43	1,197.55	34.09	32.27	46.94	0.00	0.00	0.00
1,300.00	8.61	43.43	1,296.42	44.96	42.56	61.91	0.00	0.00	0.00
1,400.00	8.61	43.43	1,395.30	55.83	52.85	76.88	0.00	0.00	0.00
,	8.61				63.14	91.85	0.00	0.00	
1,500.00		43.43	1,494.17	66.70					0.00
1,600.00	8.61	43.43	1,593.04	77.57	73.44	106.82	0.00	0.00	0.00
1,700.00	8.61	43.43	1,691.91	88.45	83.73	121.79	0.00	0.00	0.00
1,800.00	8.61	43.43	1,790.79	99.32	94.02	136.76	0.00	0.00	0.00
1,900.00	8.61	43.43	1,889.66	110.19	104.31	151.73	0.00	0.00	0.00
2,000.00	8.61	43.43	1,988.53	121.06	114.60	166.70	0.00	0.00	0.00
2,100.00	8.61	43.43	2,087.41	131.93	124.89	181.67	0.00	0.00	0.00
2,200.00	8.61	43.43	2,186.28	142.80	135.18	196.64	0.00	0.00	0.00
2,300.00	8.61	43.43	2,186.28	153.68	145.48	211.61	0.00	0.00	0.00
2,300.00	0.01	43,43	2,203.13	155.00	145,46				
2,400.00	8.61	43.43	2,384.03	164.55	155.77	226.58	0.00	0.00	0.00
2,500.00	8.61	43.43	2,482.90	175.42	166.06	241.55	0.00	0.00	0.00
2,600.00	8.61	43.43	2,581.77	186.29	176.35	256.52	0.00	0.00	0.00
2,700.00	8.61	43.43	2,680.65	197.16	186.64	271.49	0.00	0.00	0.00
2,800.00	8.61	43.43	2,779.52	208.03	196.93	286.46	0.00	0.00	0.00
2,900.00	8.61	43,43	2,878.39	218.91	207.23	301.43	0.00	0.00	0.00
			,						
3,000.00	8.61	43.43	2,977.27	229.78	217.52	316.40	0.00	0.00	0.00
3,100.00	8.61	43.43	3,076.14	240.65	227.81	331.37	0.00	0.00	0.00
3,200.00	8.61	43.43	3,175.01	251.52	238.10	346.34	0.00	0.00	0.00
3,300.00	8.61	43.43	3,273.88	262.39	248.39	361.31	0.00	0.00	0.00
3,400.00	8.61	43.43	3,372.76	273.26	258.68	376.28	0.00	0.00	0.00
3,500.00	8.61	43.43	3,471.63	284.14	268.98	391,26	0.00	0.00	0.00
3,600.00	8.61	43.43	3,570,50	295.01	279.27	406.23	0.00	0.00	0.00
3,700.00	8.61	43.43	3,669.38	305.88	289.56	421.20	0.00	0.00	0.00
3,800.00	8.61	43.43	3,768.25	316.75	299.85	436.17	0.00	0.00	0.00
,									
3,900.00	8.61	43.43	3,867.12	327.62	310.14	451.14	0.00	0.00	0.00
4,000.00	8.61	43.43	3,966.00	338.49	320.43	466.11	0.00	0.00	0.00
4,100.00	8.61	43.43	4,064.87	349.36	330.72	481.08	0.00	0.00	0.00
4,200.00	8.61	43.43	4,163.74	360.24	341.02	496.05	0.00	0.00	0.00
4,300.00	8.61	43.43	4,262.62	371.11	351.31	511.02	0.00	0.00	0.00
				294.00	361.60	525.99	0.00	0.00	0.00
4,400.00	8.61	43.43	4,361.49	381.98			0.00	0.00	0.00
4,500.00	8.61	43.43	4,460.36	392.85	371.89	540.96			
4,600.00	8.61	43.43	4,559.23	403.72	382.18	555.93	0.00	0.00	0.00
4,700.00	8.61	43.43	4,658.11	414.59	392.47	570.90	0.00	0.00	0.00
4,800.00	8.61	43.43	4,756.98	425.47	402.77	585.87	0.00	0.00	0.00
4,900.00	8.61	43.43	4,855.85	436.34	413.06	600.84	0.00	0.00	0.00
5,000.00	8.61	43.43	4,954.73	447.21	423.35	615.81	0.00	0.00	0.00
5,100.00	8.61	43.43	5,053.60	458.08	433.64	630.78	0.00	0.00	0.00
5,200.00	8.61	43.43	5,152.47	468.95	443.93	645.75	0.00	0.00	0.00

#### **Scientific Drilling**

#### Planning Report

Database:

EDM 2003.16 Single User Db

Company: Project:

Newfield Exploration Co. Uintah County, UT NAD83 UTC

Site:

Humpback

Well: Humpback T-23-8-17

Wellbore: Design: OH Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Humpback T-23-8-17

GL 5067' & RKB 12' @ 5079.00ft (NDSI 2)

GL 5067' & RKB 12' @ 5079.00ft (NDSI 2)

Minimum Curvature

ned Survey									
Measured Depth (ft)	inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	8.61	43.43	5,251.35	479.82	454.22	660.72	0.00	0.00	0.00
5,400.00	8.61	43.43	5,350,22	490.70	464.51	675.69	0.00	0.00	0.00
5,500.00	8.61	43.43	5,449.09	501.57	474.81	690.66	0.00	0.00	0.00
5,600.00	8.61	43.43	5,547.97	512.44	485.10	705.63	0.00	0.00	0.00
5,700.00	8.61	43.43	5,646.84	523.31	495.39	720.60	0.00	0.00	0.00
5,800.00	8.61	43.43	5,745.71	534.18	505.68	735.57	0.00	0.00	0.00
5,900.00	8.61	43.43	5,844.59	545.05	515.97	750.54	0.00	0.00	0.00
6,000.00	8.61	43.43	5,943.46	555.93	526.26	765.51	0.00	0.00	0.00
6,100.00	8.61	43.43	6,042.33	566.80	536.56	780.48	0.00	0.00	0.00
6,200.00	8.61	43.43	6,141.20	577.67	546.85	795.45	0.00	0.00	0.00
6,300.00	8.61	43.43	6,240.08	588.54	557.14	810.42	0.00	0.00	0.00
6,400.00	8.61	43.43	6,338.95	599.41	567.43	825.39	0.00	0.00	0.00
6,500.00	8.61	43.43	6,437.82	610.28	577.72	840.36	0.00	0.00	0.00
6,600.00	8.61	43.43	6,536.70	621.16	588.01	855.33	0.00	0.00	0.00
6,700.00	8.61	43.43	6,635.57	632.03	598.31	870.30	0.00	0.00	0.00
6,744.94	8.61	43.43	6,680.00	636.91	602.93	877.03	0.00	0.00	0.00

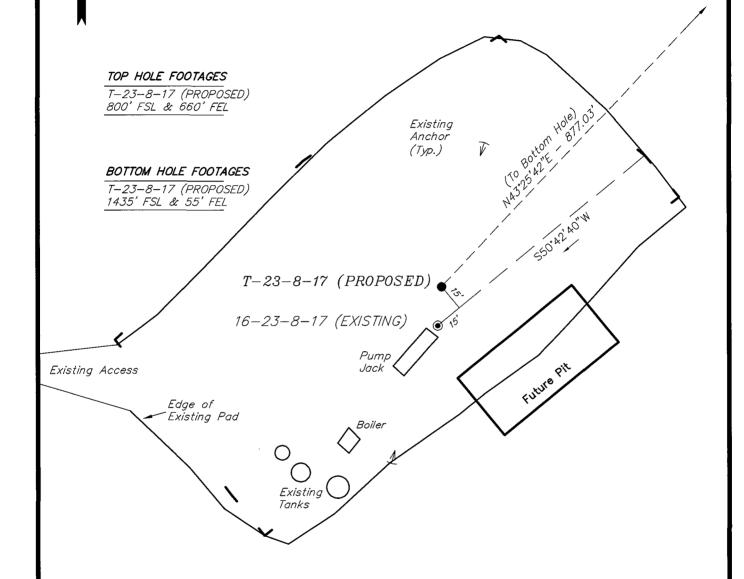
Targets		and the second							
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	NorthIng (ft)	Easting (ft)	Latitude	Longitude
H T-23-8-17 PBHL - plan hits target cent - Circle (radius 75.00		0.00	6,680.00	636.91	602.93	7,208,930.56	2,069,911.42	40° 6' 0.795 N	109° 57' 52.331 W

# NEWFIELD PRODUCTION COMPANY

WELL PAD INTERFERENCE PLAT

HUMPBACK T-23-8-17 (Proposed Well) HUMPBACK 16-23-8-17 (Existing Well)

Pad Location: SESE Section 23, T8S, R17E, S.L.B.&M.



<u>Note:</u> Bearings are based on GLO Information.

RELATIVE COORDINATES From top hole to bottom hole						
WELL NORTH EAST						
T-23-8-17 637' 603'						

SURVEYED BY:	D.G.	DATE SURVEYED:		12-20-07
DRAWN BY:	F.T.M.	DATE DRAWN:		01-03-08
SCALE: 1"	= 50'	REVISED:	L.C.S.	02-15-08

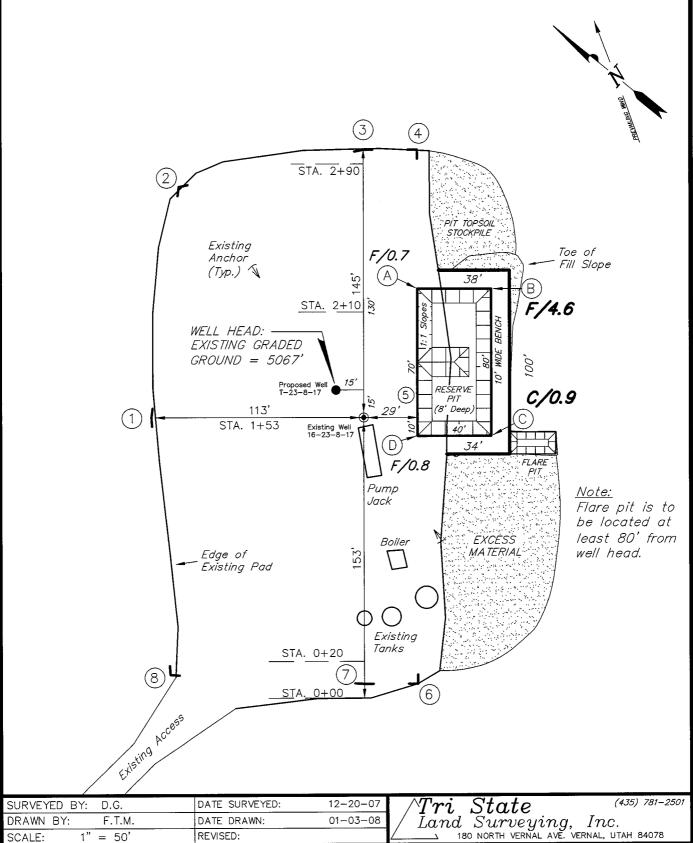
	TITUDE &			
Surface	position o	f We	lls (NAI	83)
			T	

WELL	LONGITUDE	
T-23-8-17	40° 05' 54.50"	109* 58' 00.09"
16-23-8-17	40° 05' 54.29"	109° 58' 00.12"

# NEWFIELD PRODUCTION COMPANY

HUMPBACK T-23-8-17 (Proposed Well) HUMPBACK 16-23-8-17 (Existing Well)

Pad Location: SESE Section 23, T8S, R17E, S.L.B.&M.

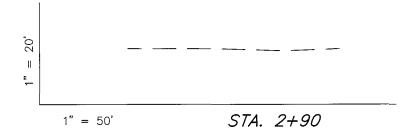


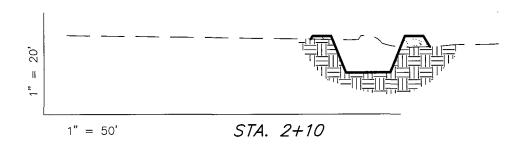
SCALE:

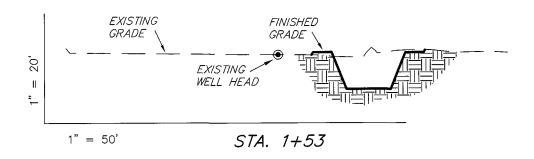
## NEWFIELD PRODUCTION COMPANY

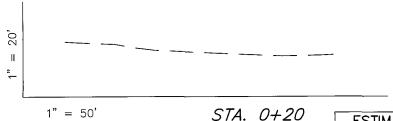
# CROSS SECTIONS

HUMPBACK T-23-8-17 (Proposed Well) HUMPBACK 16-23-8-17 (Existing Well)









NOTE: UNLESS OTHERWISE NOTED CUT SLOPES ARE AT 1:1 FILL SLOPES ARE AT 1.5:1

# ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

6" TOPSOIL EXCESS FILL ITEM CUT Topsoil is -160 PAD 0 160 not included in Pad Cut 0 570 PIT 570 410 TOTALS 570 160 130

SURVEYED BY: D.G.	DATE SURVEYED:	12-20-07
DRAWN BY: F.T.M.	DATE DRAWN:	01-03-08
SCALE: 1" = 50'	REVISED:	

$\triangle Tri$	State	(435)	781–2501
	Surveying,	, $Inc.$	
	BO NORTH VERNAL AVE.	VERNAL, UTAH 8	34078

### NEWFIELD PRODUCTION COMPANY TYPICAL RIG LAYOUT HUMPBACK T-23-8-17 (Proposed Well) HUMPBACK 16-23-8-17 (Existing Well) Emergency fuel shut down STORAGE TANK ight Plan Existing Anchor FUE (Typ.) 38 DOG HOUSE WATER TANK TOILET BASE PARTS HOUSE BENCH RG TRAILERS JOIM ,00 RESERVE 113' Existing Well 40' 34 PIPE RACKS FLARE PIT Pump Jack Note: PIPE RACKS Flare pit is to be located at least 80' from well head. Edge of Existing Pad Existing Tanks Existing Access $egin{array}{ll} Tri & State & {}^{ ag{435}} {}^{ ag{781-1}} \ Land & Surveying, & Inc. \ \_\_\_\_ & {}^{ ag{180}} {$ (435) 781-2501 12-20-07 DATE SURVEYED: SURVEYED BY: D.G. 01-03-08 DRAWN BY: F.T.M. DATE DRAWN: 1" = 50REVISED: SCALE:

# ewfield Production Compa **Proposed Site Facility Diagram**

**Humpback Federal T-23-8-17** 

Follow Holland Control

die voor de Weeden Geber. Die voor de Weeden Geber

EPAUL SAUG PAUX See J. Sees Miles

B. British frontiers at the c

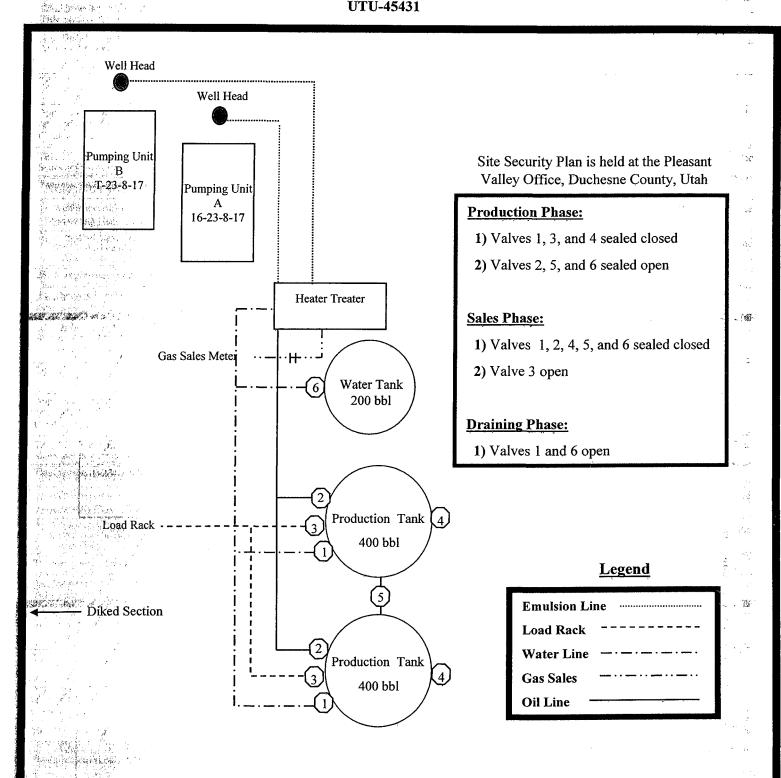
Total

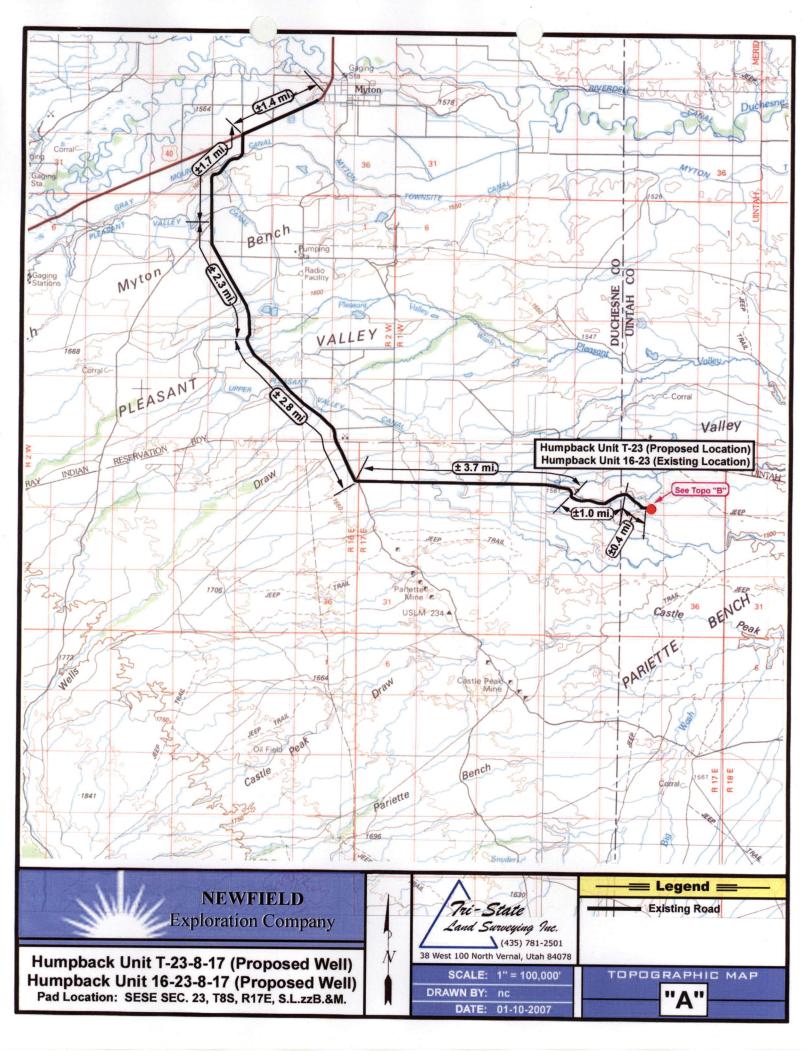
From the 16-23-8-17 Location

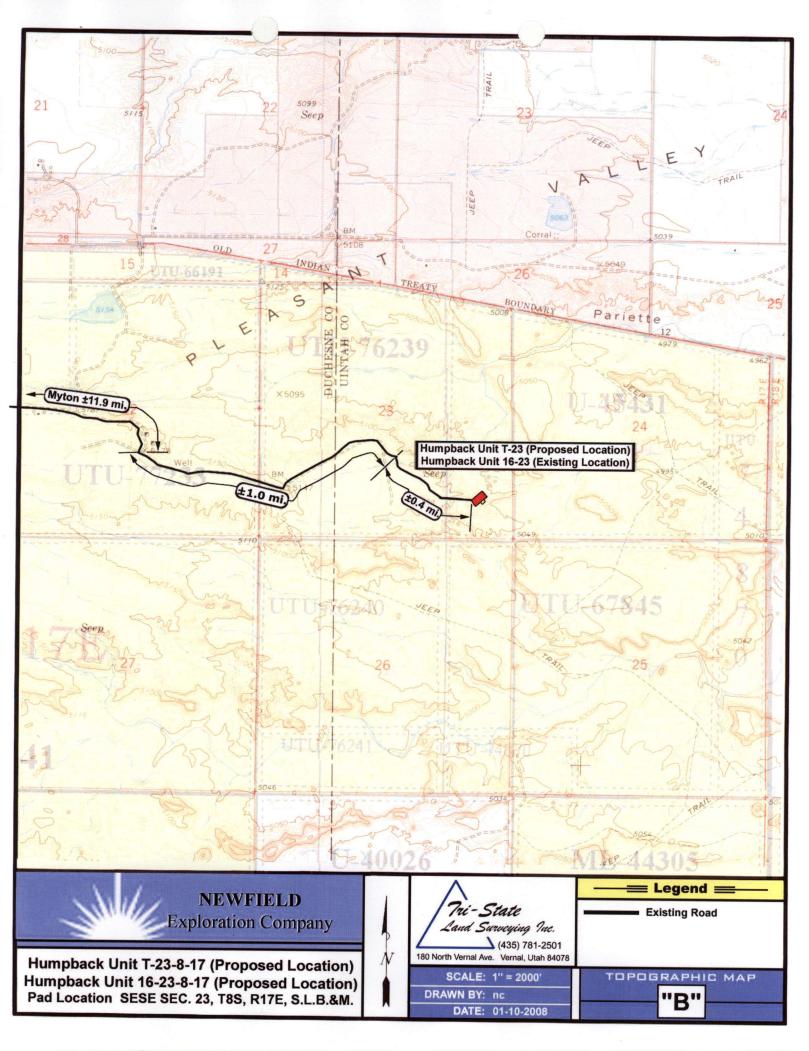
**SE/SE Sec. 23 T8S, R17E** 

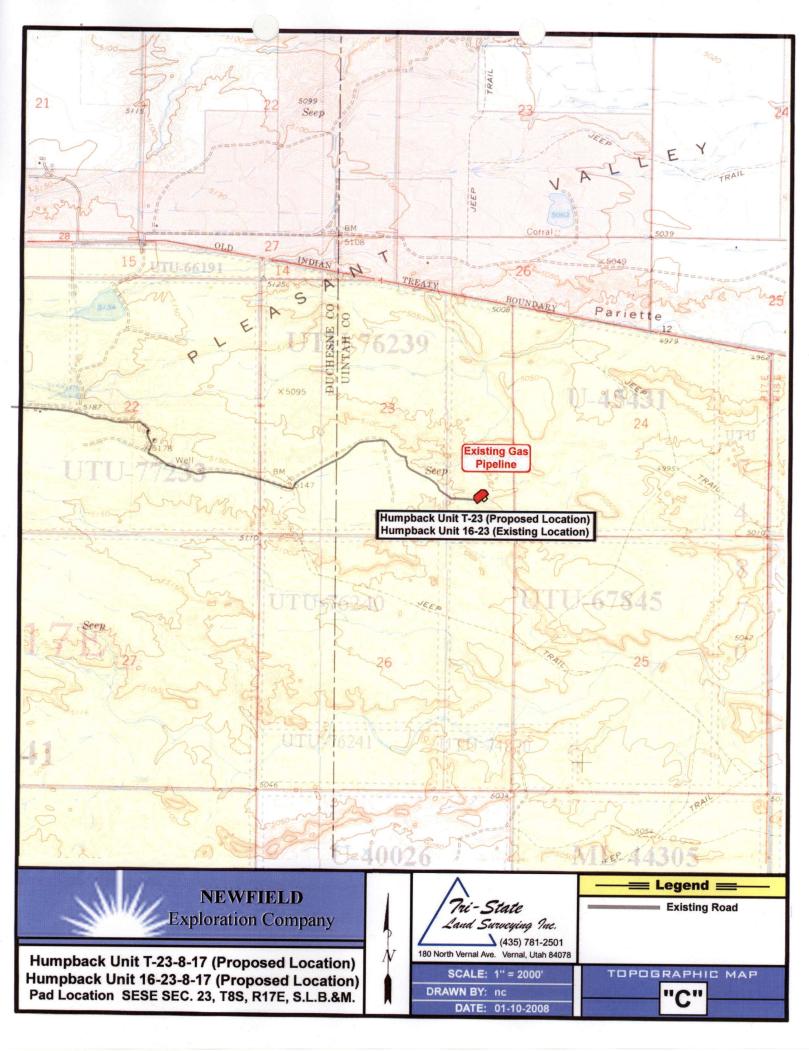
**Uintah County, Utah** 

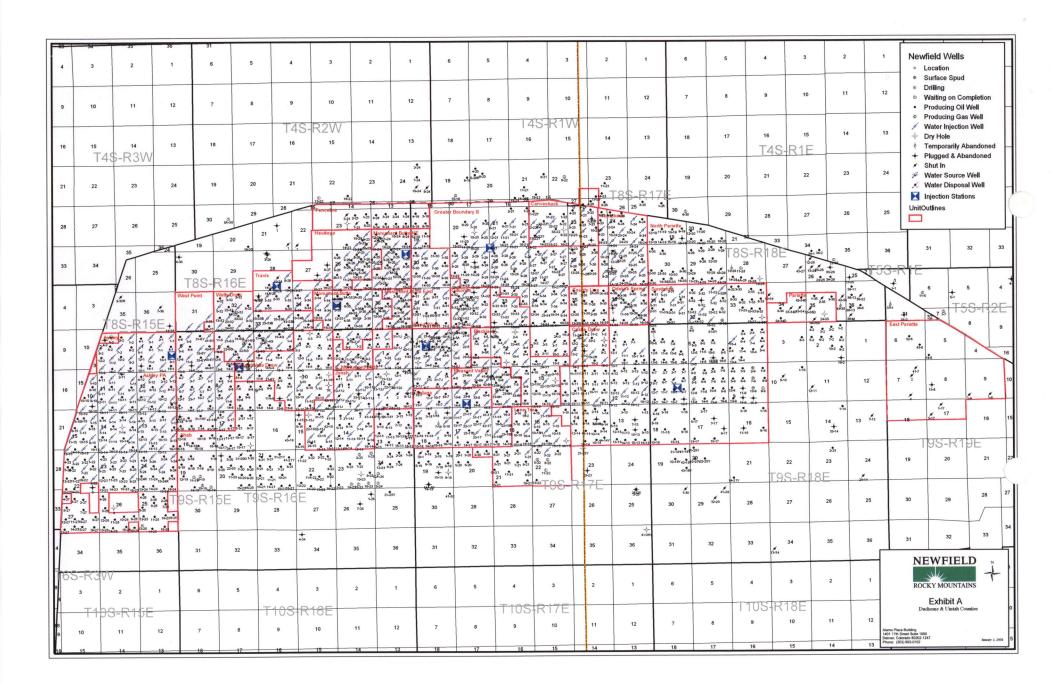
UTU-45431

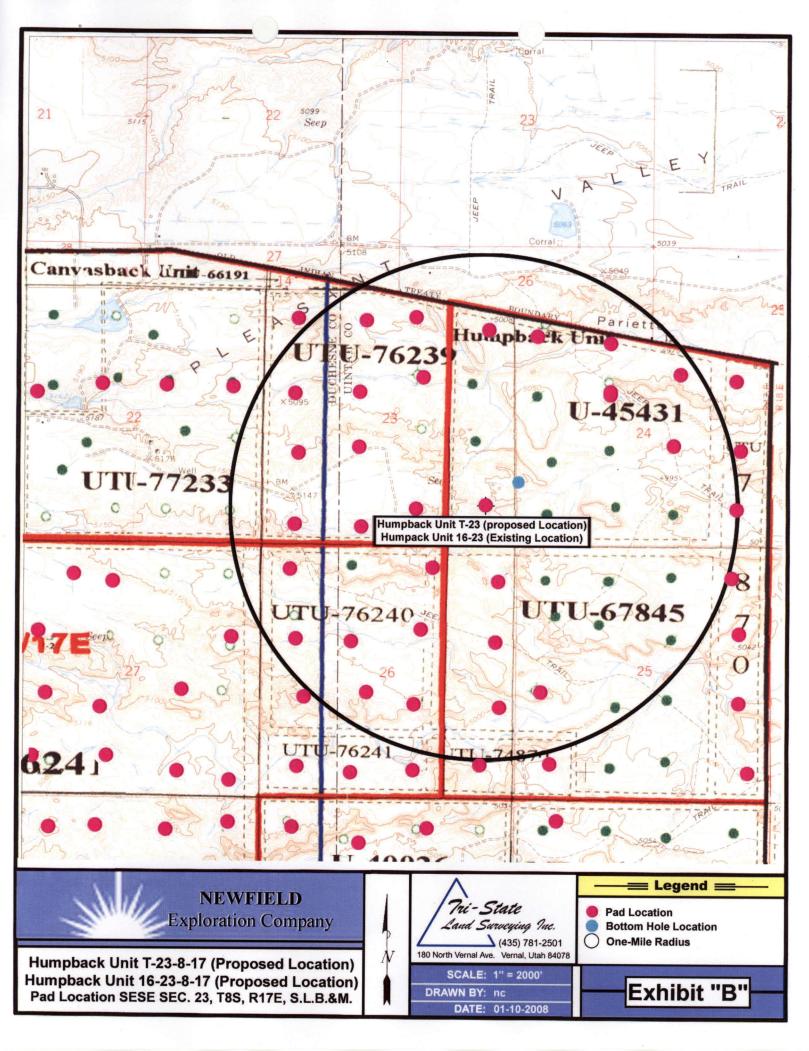






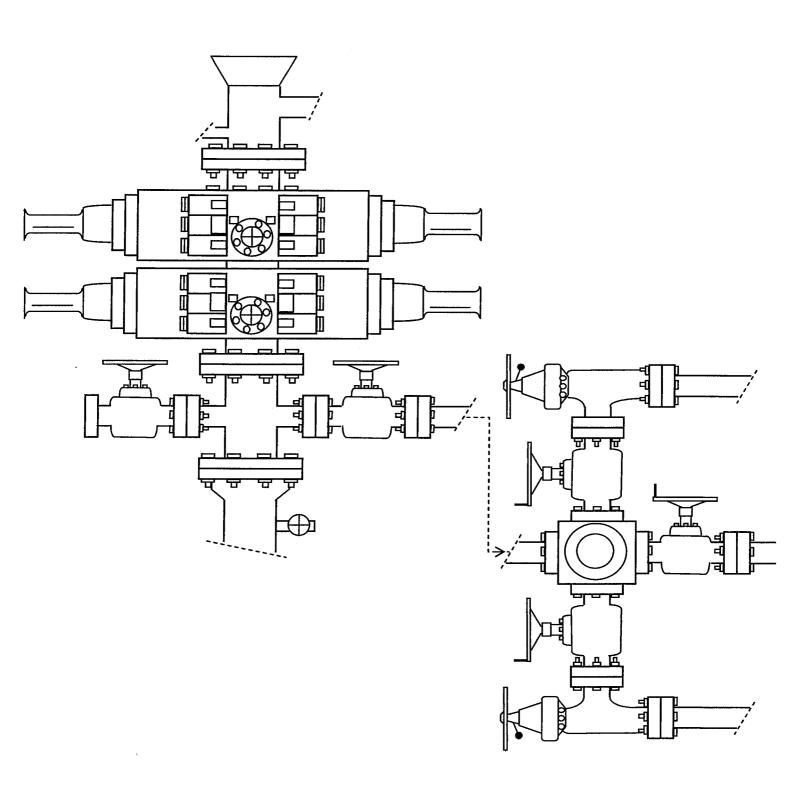






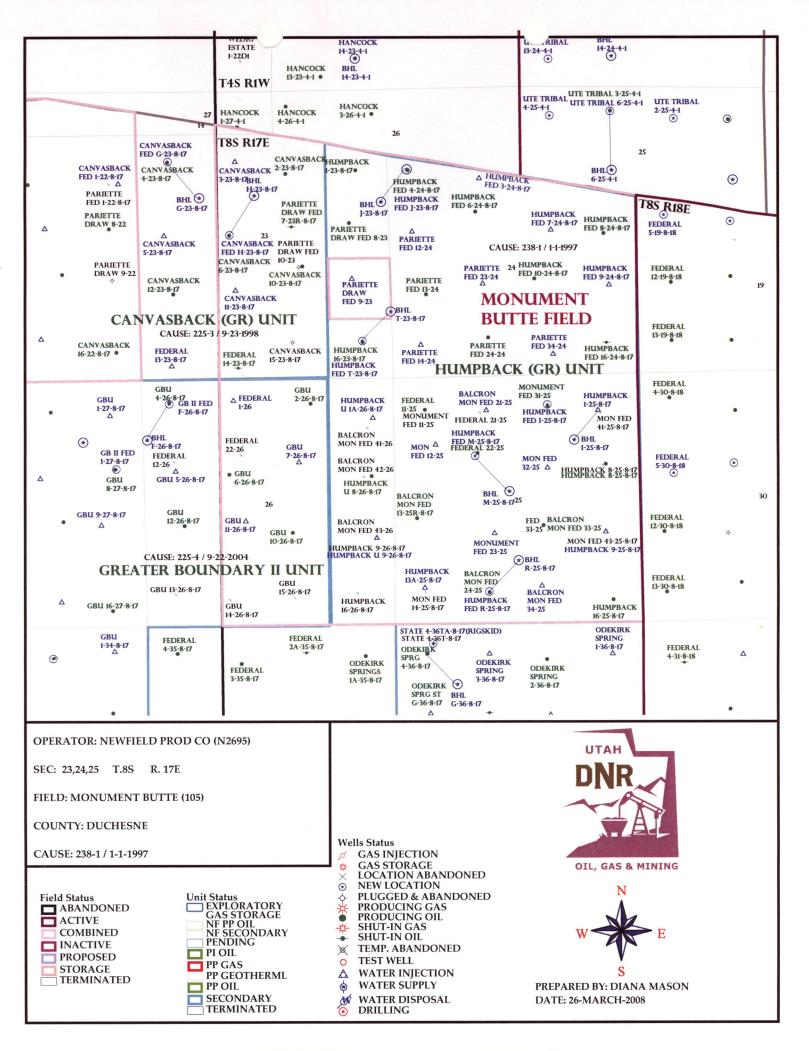


**Blowout Prevention Equipment Systems** 



**EXHIBIT C** 

APD RECEIVED: 03/18/2008	API NO. ASSIGNED: 43-047-39970
WELL NAME: HUMPBACK FED T-23-8-17	
OPERATOR: NEWFIELD PRODUCTION ( N2695 )	PHONE NUMBER: 435-646-3721
CONTACT: MANDIE CROZIER	
PROPOSED LOCATION:	INSPECT LOCATN BY: / /
SESE 23 080S 170E SURFACE: 0800 FSL 0660 FEL	Tech Review Initials Date
BOTTOM: 1435 FSL 0055 FEL	Engineering
COUNTY: UINTAH LATITUDE: 40.09836 LONGITUDE: -109.9659	Geology
UTM SURF EASTINGS: 588149 NORTHINGS: 44389	Surface
FIELD NAME: MONUMENT BUTTE ( 105  LEASE TYPE: 1 - Federal  LEASE NUMBER: UTU-45431  SURFACE OWNER: 1 - Federal	PROPOSED FORMATION: GRRV COALBED METHANE WELL? NO
Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. WYB000493 )  Potash (Y/N)  Noil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. 43-10136 )  RDCC Review (Y/N)  (Date: )  Fee Surf Agreement (Y/N)  Intent to Commingle (Y/N)	LOCATION AND SITING:  R649-2-3.  Unit: HUMPBACK (GRRV)  R649-3-2. General
STIPULATIONS: STIPULATIONS:	





March 24, 2008

State of Utah, Division of Oil, Gas and Mining ATTN: Diana Mason PO Box 145801 Salt Lake City, UT 84114-5801

RE:

Directional Drilling

**Humpback Federal T-23-8-17** 

Humpback Unit UTU-76189X

Surface Hole:

T8S R17E, Section 23: SESE

800' FSL 660' FEL

Bottom Hole:

T8S R17E, Section 23

1435' FSL 55' FEL

Uintah County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated March 14, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and target location of this well are both within the boundaries of the Humpback Federal Unit UTU-76189X. Newfield certifies that it is the Humpback Unit Operator and all lands within 460 feet of the entire directional well bore are within the Humpback Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at <a href="mailto:reveland@newfield.com">reveland@newfield.com</a>. Your consideration of this matter is greatly appreciated.

Sincerely,

Roxann Eveland Land Associate

Royann Eirland

RECEIVED

MAR 27 2008

DIV. OF OIL, GAS & MINING

Form 3160-3 (September 2001)			FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004			
UNITED STATES  DEBARTMENT OF THE DIFFERENCE			5. Lease Serial No.			
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT			UTU-45431			
APPLICATION FOR PERMIT TO D		******		6. If Indian, Allottee or Tribe Name		
	NILL OR REEN	EK		N/A	4	
1a. Type of Work: DRILL REENTE	R	***************************************		7. If Unit or CA Agr	eement, N	ame and No.
				Humpback Unit		
Ib. Type of Well: 🖾 Oil Well 🚨 Gas Well 🚨 Other	Single Zo	no [] Male		8. Lease Name and Well No.		
2. Name of Operator	- Single 2.0	ite - IVIUII	ipie Zone	Humpback Federa	I T-23-8-1	7
Newfield Production Company				9. API Well No.		
3a. Address	3b. Phone No. (inclu	-		10. Field and Pool, or Exploratory		
Route #3 Box 3630, Myton UT 84052	(435) 646-			Monument B		
4. Location of Well (Report location clearly and in accordance with	any State requirements	:*)		11. Sec., T., R., M., or	Blk. and S	Survey or Area
At surface SE/SE 800' FSL 660' FEL				Sec. 23, T8S	P17F	
At proposed prod. zone 1435' FSL 55' FEL				000, 20, 100	10172	
14. Distance in miles and direction from nearest town or post office*				12. County or Parish		13. State
Approximatley 13.3 miles southeast of Myton, Utah 15. Distance from proposed*	T		<del>,</del>	Uintah		UT
location to nearest	16. No. of Acres in	ease	17. Spacing	g Unit dedicated to this	well	
property or lease line, ft.  (Also to nearest drig. unit line, if any) Approx. 1265' #lse. 1265' #unit	548.31			20 Acres		
18. Distance from proposed location*			20. BLM/E	M/BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1257'		v	WYB000493			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate dat	e work will sta	rt*	23. Estimated duration	n	
5067' GL	2 nd Quarter 200	8		Approximately seven (7) days from spud to rig release.		g release.
	24. Attachment					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No	o.1, shall be at	tached to this	form:		
Well plat certified by a registered surveyor.	[ 4. B	ond to cover the	ne operation	s unless covered by an	existing be	and an file (see
2. A Drilling Plan.	Ite	m 20 above).				
<ol> <li>A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	6. Si	perator certific the other site	specific info	mation and/or plans as	may be	required by the
	au	thorized office	r,			
25. Signature	Name (Printed)			!	Date	
- Marrie (usus	, Mandie Cro	ozi <del>e</del> r			3/14/08	<u> </u>
Title Regulatory Specialist						
Approved by (Signature)	Name (Printed)	Typed)		<del> </del>	Date	
				; !		
Title						
A-E-di-	i					
Application approval does not warrant or certify the the applicant holds leg operations thereon.  Conditions of approval, if any, are attached.	gai or equitable title to	mose rights in	the subject le	ase which would entitle	the applic	ant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as to	crime for any person any matter within its ju	knowingly and	d willfully to	make to any departmen	nt or agenc	y of the United

\*(Instructions on reverse)

RECEIVED MAR 27 2008

#### T8S, R17E, S.L.B.&M. NEWFIELD PRODUCTION COMPANY N80°20'W - 80.35 (G.L.O.) N89'53'00"E Old Indian Treaty Boundary WELL LOCATION, HUMPBACK T-23-8-17. 2512.33' (Meas. to C.C.) N80°06'W - 80.03 (G.L.o.) LOCATED AS SHOWN IN THE SE 1/4 SE 1910 1910 cc Brass Cap 1/4 OF SECTION 23, T8S, R17E, Brass Cap S.L.B.&M. UINTAH COUNTY, UTAH. Brass Cap Lot 4 Lot 3 Lot 2 Lot 1 2117.25' (Meas. to NO0'20'20"W WELL LOCATION: SCALE HUMPBACK T-23-8-17 ELEV. EXIST. GRADED GROUND = 5067 NO.01'W (G.L.O.) Note: 1. The bottom of hole footages 1910 gre 1435' FSL & 55' FFL. Brass Cap 1910 Brass Cap **Bottom** THIS IS TO CERTIFY THAT THE ABOVE PER PREPARED FROM FIELD OF ACTUME MADE BY ME OR UNDER ANY SUPPRISON THE SAME ARE TRUE AND FORRECT TO THE MY KNOWLEDGE AND FELLE NO.189377 DRILLING WNDOW W G.L. 1 2643.5 STACY W. Top of Hole 1910 Brass Cap Brass Cap S89'49'51"W - 2641.34' (Meas.) S89'01'17"W - 2631.66' (Meas.) **Brass** TRI STATE LAND SURVEYING & CONSULTING WEST - 79.88 (G.L.O.) 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501HUMPBACK T-23-8-17 DATE SURVEYED: = SECTION CORNERS LOCATED SURVEYED BY: D.G. (Surface Location) NAD 83 12-20-07 LATITUDE = 40° 05' 54.50" DATE DRAWN: BASIS OF ELEV; DRAWN BY: F.T.M. LONGITUDE = 109 58' 00.09" 01-03-07 U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW) REVISED: SCALE: 1" = 1000' 02~15-08 L.C.S.

# **United States Department of the Interior**

#### BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

March 31, 2008

Memorandum

To:

Assistant District Manager Minerals, Vernal District

From:

Michael Coulthard, Petroleum Engineer

Subject:

2008 Plan of Development Humpback Unit,

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Humpback Unit, Uintah County, Utah.

API#

WELL NAME

LOCATION

(Proposed PZ Green River)

43-013-33970 Humpback Fed T-23-8-17 Sec 23 T08S R17E 0800 FSL 0660 FEL BHL Sec 23 T08S R17E 1435 FSL 0055 FEL

47 43-0<del>13</del>-33974 Humpback Fed J-23-8-17 Sec 24 T08S R17E 0327 FNL 0433 FWL BHL Sec 23 T08S R17E 1031 FNL 0115 FEL

43-013-33971 Humpback Fed I-25-8-17 Sec 25 T08S R17E 0607 FNL 2002 FEL BHL Sec 25 T08S R17E 1370 FNL 1435 FEL

47 43-013-33972 Humpback Fed M-25-8-17 Sec 25 T08S R17E 1692 FNL 1734 FWL BHL Sec 25 T08S R17E 2464 FNL 2466 FWL

47
43-013-33973 Humpback Fed R-25-8-17 Sec 25 T08S R17E 0667 FSL 2014 FWL
BHL Sec 25 T08S R17E 1335 FSL 2650 FWL

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Humback Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:3-31-08



# State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

**Division of Oil Gas and Mining** 

JOHN R. BAZA
Division Director

March 31, 2008

Newfield Production Company Rt. #3, Box 3630 Myton, UT 84052

Re:

Humpback Federal T-23-8-17 Well, Surface Location 800' FSL, 660' FEL, SE SE,

Sec. 23, T. 8 South, R. 17 East, Bottom Location 1435' FSL, 55' FEL, NE SE,

Sec. 23, T. 8 South, R. 17 East, Uintah County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39970.

Sincerely,

Gil Hunt

Associate Director

Xlig Zht

pab Enclosures

cc:

**Uintah County Assessor** 

Bureau of Land Management, Vernal Office



Operator:	Newfield Production Company			
Well Name & Number	Humpback Federal T-23-8-17			
API Number:	43-047-39970			
Lease:	UTU-45431			
Surface Location: SE SE Bottom Location: NE SE	Sec. 23 Sec. 23	T. 8 South T. 8 South	R. 17 East R. 17 East	

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Form 3160-3 (September 2001)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0136

BUREAU OF LAND MANAC	010-45451				
APPLICATION FOR PERMIT TO DE	6. If Indian, Allottee or Tribe Name				
AT LIGATION FOR TERMIT TO DE	N/A				
1a. Type of Work:  DRILL  REENTER			7. If Unit or CA Agreemen	7. If Unit or CA Agreement, Name and No.	
Ta. Type of work.	C		Humpback Unit	Humpback Unit	
			8. Lease Name and Well No.		
1b. Type of Well: Oil Well Gas Well Other	Single Zone Multi	ple Zone	Humpback Federal T-23-8-17		
2. Name of Operator			9. API Well No.		
Newfield Production Company			43 OH7 3	9978	
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Expl		
Route #3 Box 3630, Myton UT 84052	(435) 646-3721		Monument Butte		
4. Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., T., R., M., or Blk. and Survey or Area		
At surface SE/SE 800' FSL 660' FEL					
At proposed prod. zone 1435' FSL 55' FEL NESE	•,		Sec. 23, T8S R17E		
			12. County or Parish	13. State	
14. Distance in miles and direction from nearest town or post office*			•		
Approximatley 13.3 miles southeast of Myton, Utah	<del></del>		Uintah	UT	
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacin	g Unit dedicated to this well		
property or lease line, ft.	548.31	}	20 Acres		
(1130 to hearest drig, unit me, if uny)					
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20. BLM/I	BIA Bond No. on file		
			WYB000493		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)  22. Approximate date work will start*			23. Estimated duration		
5067' GL 2 nd Quarter 2008			Approximately seven (7) days from s	pud to rig release.	
	24. Attachments				
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No.1, shall be at	tached to this	s form:		
Well plat certified by a registered surveyor.	4. Bond to cover t	he operation	ns unless covered by an exis	ting bond on file (see	
	Itam 20 abaya)				

- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

- 5. Operator certification.
  6. Such other site specific information and/or plans as may be required by the

25. Signature	Name (Printed/Typed) Mandie Crozier	Date 3/14/08
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Se Remek	JERRY KENCEKA	5-15-2008
Title Assistant Field Manager	Office VERNAL FIELD OFF	ice

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

CONDITIONS OF APPROVAL ATTACHED RECEIVED

NOTICE OF APPROVAL

MAY 1 9 2008

DIV. OF OIL, GAS & MINING

NOS 3.19.08 OSPPO447A



#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

**VERNAL, UT 84078** 

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

**SESE Sec 23, T8S, R17E** Location: **Company: Newfield Production Company** 

**Humpback Federal T-23-8-17** Lease No: UTU-45431 Well No: 43-047-39970 **Humpback Unit** API No: Agreement:

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	, •	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	·	(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7482
NRS/Enviro Scientist:		(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
		Fax: (435) 781-3420	

### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

### **NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days

# SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### **General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

#### **Specific Surface COAs**

STIPULATIONS: NONE

#### Lease Notices from RMP:

- The lessee/operator is given notice the area has been identified as containing Ferruginous hawk habitat. Modifications may be required in the Surface Use Plan to protect the Ferruginous hawk and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms. Endangered Species Act, and 43 CFR 3101.1-2.
- The lessee/operator is given notice the area has been identified as containing Golden eagle habitat.
   Modifications may be required in the Surface Use Plan to protect the Golden eagle and/or its habitat
   from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered
   Species Act, and 43 CFR 3101.1-2.

#### Comments: NONE

#### Follow-up Actions and/or Recommendations:

Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of this report (onsite) should require additional surveys and clearances.

#### CONDITIONS OF APPROVAL:

- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such

equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.

- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed immediately upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 Pit Fencing Minimum Standards will be strictly adhered to.
   To include 9.2.2.3 Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. This will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

#### Interim Reclamation:

• The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded using a rangeland drill. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the late summer to fall (September 1st until snow or ground is frozen) with the following seed mix:

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	Elymus elymoides	3.0	1/4 - 1/2"
Siberian wheatgrass	Agropyron fragile	1.0	1/2"
Shadscale saltbush	Atriplex confertifolia	0.50	1/2"
Four-wing saltbush	Atriplex canescens	0.50	1/2"
Gardner's saltbush	Atriplex gardneri	0.50	1/2"
Scarlet globemallow	Sphaeralcea coccinea	0.10	1/8 - 1/4"
Forage Kochia	Kochia prostratus	0.10	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

#### Final reclamation:

Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.

- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other
  applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of
  the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide
  Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides,
  or other possibly hazardous chemicals.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the
  reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in
  the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (see above).
   Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

#### **DOWNHOLE CONDITIONS OF APPROVAL**

#### SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

Logging: Run Gamma Ray from TD to surface

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned.
   Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily
  drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order
  No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a
  test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
  encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
  Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) shall the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

Page 6 of 8 Well: Humpback Federal T-23-8-17 5/13/2008

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welliogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Shall the well be successfully completed for production, the BLM Vernal Field office must be notified
  when it is placed in a producing status. Such notification will be by written communication and must
  be received in this office by not later than the fifth business day following the date on which the well
  is placed on production. The notification shall provide, as a minimum, the following informational
  items:
  - o Operator name, address, and telephone number.
  - o Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
  Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
  future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
  BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
  hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
  be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to
  the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first.
  All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All
  product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in
  accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
  lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
  suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
  obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior approval of
  the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
  approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of
  operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: Newfield Pr	roduction Company	
Well Name: Humpback Fed 7	23-8-17	
API No: 43-047-39970	Lease Type: Federal	
Section 23 Township 08S	Range 17E County Uintah	
Drilling Contractor	Rig #	
SPUDDED:		
Date		
Time <u>12:00 PM</u>		
How_Dry	<del></del>	
Drilling will Commence:_		
Reported by <u>Justin Crum</u>		
Telephone #435-823-6732		
Date 7-03-08	Signed RM	

STATE OF UTAH DIVISION OF OIL, GAS AND MINING **ENTITY ACTION FORM - FORM 6** 

OPERATOR: NEWFIELD PRODUCTION COMPANY

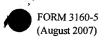
OPERATOR ACCT. NO.

N2695

ADDRESS: RT. 3 BOX 3630

MYTON, UT 84062

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### RECEIVED UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT JUL 1 4 2008

Expires: July 31,2010

FORM APPROVED OMB No. 1004-0137

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SUNDRY	1	USA UTU-45431								
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SUBMIT IN	SUBMIT IN TRIPLICATE - Other Instructions on page 2									
1. Type of Well	НИМРВАСК Ц	INIT								
	Other			8. Well Name and	i No.					
2. Name of Operator NEWFIELD PRODUCTION CO	NAD A NISZ			HUMPBACK F	EDERAL T-23-8-17					
3a. Address Route 3 Box 3630	MPANY	3b. Phone (include are	codal	9. API Well No.						
Myton, UT 84052		435.646.3721	coue)	4304739970 10 Field and Poo	l, or Exploratory Area					
	Sec., T., R., M., or Survey Descrip	otion)		MONUMENT						
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TYPE OF SUBMISSION		TYPI	OF ACTION							
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Productio	n (Start/Resume)	☐ Water Shut-Off					
Notice of Intent	Alter Casing	Fracture Treat	Reclamat	ion	Well Integrity					
Subsequent Report	Casing Repair	New Construction	Recomple	ete	☑ Other					
Final Abandonment	Change Plans	Plug & Abandon		ily Abandon	Spud Notice					
13. Describe Proposed or Completed Op	Convert to Injector	Plug Back	Water Dis	<u> </u>						
Set @ 332KB. On 7/4/08 yeild. Returned 2 bbls ce	21.Spud well @ 12:30 PM. cement with 160 sks of cla ment to pit. WOC.	ass "G" w/ 3% CaCL2 +	1/4# sk Cell	o- Flake Mixed	@ 15.8 ppg > 1.17 cf/ sk					
I hereby certify that the foregoing is correct (Printed/ Typed)  Justin Crum  Signature	true and	Title Drilling Forema Date	n							
Miselie	THIS SPACE FO	R FEDERAL OR STA	TE OFFIC	E USE						
			LE OFFICE	1 100						
Approved by  Conditions of approval, if any, are attache	d. Approval of this notice does not w	Title arrant or	·	Date	9					

which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

Office

certify that the applicant holds legal or equitable title to those rights in the subject lease

### **NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

			8_5/8	CASING SET	TAT	332.85				
LAST CASI	NG <u>8 5/8"</u>	set @ 329.4	<b>{</b>		OPERATOR	₹	Newfield I	Production (	Company	
DATUM	12' KB			<del></del>		WELL Canvasback Federal T-23-8				
DATUM TO	CUT OFF C	ASING				SPECT		······································		
DATUM TO	BRADENHE	AD FLANGE		<del>'''                                  </del>		TOR & RIG#		Ross 21		
TD DRILLER	325'	LOGG	ER							
HOLE SIZE	12 1/4	ļ								
	···									
LOG OF CA	SING STRIN	IG:								
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH	
		<u> </u>		·					ı <u></u>	
	ļ									
•		Shoe	Joint 44.35'						L	
	ļ	WHI - 92 cs	g head	<del></del>			8rd	Α	0.95	
7	8 5/8"	Maverick ST			24#	J-55	8rd	Α	321.95	
			GUIDE	shoe			8rd	Α	0.9	
CASING IN\	ENTORY B	AL.	FEET	JTS	TOTAL LEN		322.85			
FOTAL LENGTH OF STRING			322.85		LESS CUT	2				
LESS NON CSG. ITEMS		1.85		PLUS DATU	12					
PLUS FULL	JTS. LEFT C	DŲT	0		CASING SE	332.85				
	TOTAL		321	7	ן ∟					
TOTAL CSG	. DEL. (W/O	THRDS)	321	7	COMPARE					
TIMING			1ST STAGE		_					
BEGIN RUN	CSG.	Spud	7/2/2008	12:30 PM	GOOD CIRC	THRU JOB		yes		
CSG. IN HO	LE		7/3/2008		Bbls CMT C	IRC TO SUR	FACE	2		
BEGIN CIRC	· · · · · · · · · · · · · · · · · · ·		7/4/2008		RECIPROCA	ATED PIPE F	OR	<u>N</u> /A		
BEGIN PUM	P CMT		7/4/2008				_			
BEGIN DSP	*		7/4/2008		BUMPED PL	LUG TO	134		PSI	
PLUG DOW		<u> </u>	7/4/2008							
CEMENT US	I		WIN	CEMENT COI	MPANY-	B. J.				
STAGE	# SX			CEMENT TYP	PE & ADDITIV	/ES			:	
1	160	Class "G" w	/ 2% CaCL2 + <sup>-</sup>	1/4#/sk Cello-F	lake mixed @	) 15.8 ppg 1.	17 cf/sk yield	I		
						· · · · · · · · · · · · · · · · · · ·				
		<u> </u>								
		TCHER PLAC				SHOW MAK	E & SPACIN	IG		
centralizers	s - ivilaale fil	st, top seco	ond & third for	<u>ა</u>						
					<del></del>					

COMPANY REPRESENTATIVE Justin Crum

FORM 3160-5 (August 2007)

# **UNITED STATES**

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31,2010

SUNDRY Do not use to abandoned w  SUBMIT IN  1. Type of Well  Oil Well Gas Well  2. Name of Operator NEWFIELD PRODUCTION CO		S ON WELLS ill or to re-enter an for such proposals ructions on page 2		7. If Unit or CA/A HUMPBACK U 8. Well Name and	31 tee or Tribe Name. Agreement, Name and/or
3a. Address Route 3 Box 3630 Myton, UT 84052	3b	Phone (include are 435.646.3721	code)	4304739970	
800 FLS 660 FEL	Sec., T., R., M., or Survey Description	+55.040.5721		MONUMENT E	
SESE Section 23 T8S R17E				UINTAH, UT	•
12. CHECK	APPROPRIATE BOX(ES)	TO INIDICATE NA	TURE OF NO	OTICE, OR OT	HER DATA
TYPE OF SUBMISSION			OF ACTION		
proposal is to deepen directionally of Bond under which the work will be possible of the involved operations. If the operation of the involved operations of the inspection.)  On 7/6/08 MIRU NDSI Ricesgn to 1,500 psi. Vernal cement & shoe. Drill a 7.8 log's TD to surface. PU & with 325 sks cement mixes	Acidize  Alter Casing Casing Repair Change Plans Convert to Injector  Peration: (Clearly state all pertinent details, recomplete horizontally, give subsurface performed or provide the Bond No. on file eration results in a multiple completion or filed only after all requirements, including g # 1. Set all equipment. Press BLM field, & Roosevelt DOGM 875 hole with fresh water to a country of the provided only after all requirements. TIH with Guide shoe, shoe jt, and 11.0 ppg & 3.43 yld. The	locations and measured and to with BLM/BIA. Required su recompletion in a new intervi- greclamation, have been com- sure test Kelly, TIW, If office was notifed of depth of 6689'. Lay di float collar, 158 jt's of n 450 sks cement mi	Reclamation Recompleted Recomp	te ily Abandon posal  de work and approxim of all pertinent marke hall be filed within 30 shall be filed once test rator has determined to old, & Bop's to 2 A and tag ceme g & BHA. Open 5.5# csgn. Set @ opg & 1.24 yld.	rs and zones. Attach the days following completion ing has been completed. that the site is ready for final 2,000 psi. Test 8.625 ent @ 290'. Drill out hole log w/ Dig/SP/GR @ 6659' / KB. Cement Returned 45 of 50 bbls
I hereby certify that the foregoing is	true and	Title	IISION. Releas		RECEIVED  JUL 3 0 2008  OF OIL, GAS & MINING
Justin Crum		Drilling Foreman	1		
Signature	Lune	Date 07/28/2008			

which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Title

Office

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease

### **NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

		<u> </u>	5 1/2"	CASING SET	TAT	6659.2	_				
					Flt clir @	6574.75	- 5				
LAST CASI	NG <u>8 5/8</u>	'SET	F 329.85	<u>5</u>	OPERATOR	₹	Newfield	Production	Company		
DATUM _	12' KB				WELL	HBF T-23	-8-17				
DATUM TO	CUT OFF C	ASING	12'		FIELD/PRO	SPECT	Monumer	nt Butte			
DATUM TO	BRADENH	EAD FLANGE	<u></u>	· · · · · · · · · · · · · · · · · · ·	CONTRACT	TOR & RIG#	ŧ	NDSI#1			
TD DRILLER	6635'	<u>Logg</u> ers	<u></u>	<del></del>	TVD =						
HOLE SIZE	7 7/8"			<del></del>							
LOG OF CA	SING STRI	NG:									
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH		
		Landing Jt							14		
		Short jt	4091' (7.11)								
157	5 1/2"	ETC LT & C	casing		15.5#	J-55	8rd	Α	6603.45		
		Float collar							0.6		
1	5 1/2"	ETC LT&C	csg		15.5#	J-55	8rd	Α	42.5		
			GUIDE	shoe			8rd	A	0.65		
CASING IN	/ENTORY B	AL.	FEET	JTS	TOTAL LEN	GTH OF ST	RING	<u> </u>	6661.2		
TOTAL LENGTH OF STRING 6661				158	LESS CUT	OFF PIECE			14		
LESS NON	CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG						
PLUS FULL JTS. LEFT OUT			258.9	6	CASING SET DEPTH						
	TOTAL		6904.85	164	1						
TOTAL CSG	. DEL. (W/O	THRDS)	6904.85	164	COMPARE						
TIMING			1ST STAGE	2nd STAGE							
BEGIN RUN	CSG.		7/13/2008	2:00 PM	GOOD CIRC	THRU JOB		Yes			
CSG. IN HO	LE		7/13/2008	6:00 PM	Bbis CMT CI	RC TO SUF	FACE	0			
BEGIN CIRC	•		7/13/2008	6:00 PM	RECIPROCA	ATED PIPE I	OR	THRUSTROP	(E NA		
BEGIN PUM	PCMT		7/14/2008	6:44 PM	DID BACK P	RES. VALVI	E HOLD ?	Yes			
BEGIN DSPL	CMT	· · · · · · · · · · · · · · · · · · ·	7/14/2008	7:32 PM	BUMPED PL	.UG TO	1860		PSI		
PLUG DOW	N .		7/14/2008	8:03 AM							
CEMENT US	ED			CEMENT COM	/IPANY-	B. J.					
STAGE	# SX			CEMENT TYP	E & ADDITIV	'ES					
11		Premlite II w	/ 10% gel + 3 %	% KCL, 3#'s /sl	CSE + 2# sl	√kolseal + 1	/2#'s/sk Cello	Flake			
		mixed @ 11.	.0 ppg W / 3.49	cf/sk yield							
2		50/50 poz W	// 2% Gel + 3%	KCL, .5%EC1	,1/4# sk C.F.	2% gel. 3%	SM mixed @	14.4 ppg W/	1.24 YLD		
CENTRALIZE	ER & SCRAT	CHER PLAC	EMENT		······································	SHOW MAK	E & SPACIN	IG			
Centralizers	- Middle fir	st, top seco	nd & third. Th	en every third	d collar for a	total of 20.					
OMPANY R	EPRESENT	ATIVE	<u>Justin Crum</u>				DATE .	7/14/2008	· · · · · · · · · · · · · · · · · · ·		

### STATE OF UTAH

		Ι	STATE OF UTAH DEPARTMENT OF NATURAL R DIVISION OF OIL, GAS AN	D 1	MINING		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-45431 6. IF INDIAN, ALLOITEE OR TRIBE NAME:
	SUNDRY	ľ	NOTICES AND REPO	OR	RTS ON	WELLS	
Do			w wells, significantly deepen existing wells be erals. Use APPLICATION FOR PERMIT TO				7. UNIT OF CA AGREEMENT NAME: HUMPBACK UNIT
1. TY	PE OF WELL: OIL WELL	<u>v</u>	GAS WELL OTHER				8. WELL NAME and NUMBER: HUMPBACK FEDERAL T-23-8-17
2. NA	ME OF OPERATOR:						9. API NUMBER:
	EWFIELD PRODUCTION COM	(PA)	NY				4304739970
	DRESS OF OPERATOR:					PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:
	ute 3 Box 3630 CATION OF WELL:		CITY Myton STATE UT	Z	ZIP 84052	435.646.3721	MONUMENT BUTTE
	OTAGES AT SURFACE: 800 FLS 66	0 FI	EL				COUNTY: UINTAH
OT	R/OTR. SECTION. TOWNSHIP. RANGE.	MER	IDIAN: SESE, 23, T8S, R17E				STATE: UT
11.	CHECK APPROF	PRI	ATE BOXES TO INDICATI	E N	NATURE (	OF NOTICE, REPO	DRT. OR OTHER DATA
T	YPE OF SUBMISSION	Г				PE OF ACTION	,
	ALL OF BODIVIDOROIN	┢	Lamer		_	L OI ACTION	
	NOTICE OF INTENT	ALTER CASING CASING REPAIR			DEEPEN		REPERFORATE CURRENT FORMATION
	(Submit in Duplicate)				FRACTURE T	REAT	SIDETRACK TO REPAIR WELL
	Approximate date work will				NEW CONSTI	RUCTION	TEMPORARITLY ABANDON
			CHANGE TO PREVIOUS PLANS		OPERATOR C	CHANGE	TUBING REPAIR
			CHANGE TUBING	Γ	PLUG AND A	BANDON	VENT OR FLAIR
X	SUBSEQUENT REPORT	ᆫ	CHANGE WELL NAME	Ē	PLUGBACK		WATER DISPOSAL
	(Submit Original Form Only)	I۳	CHANGE WELL STATUS	Ē	_	N (START/STOP)	WATER SHUT-OFF
	Date of Work Completion:	늗	•		_		
	0.0000000	片	COMMINGLE PRODUCING FORMATIONS	L	=	ON OF WELL SITE	X OTHER: - Weekly Status Report
	08/29/2008	╙	CONVERT WELL TYPE		RECOMPLET	E - DIFFERENT FORMATION	
			LETED OPERATIONS. Clearly show a smpleted on 08-06-08, attached i				oranics, etc.

			<del></del>
NAME (PLEASE PRINT) Jentri Park		TITLE Production Clerk	
SIGNATURE		DATE 08/29/2008	
/	1		

(This space for State use only)

**RECEIVED** SEP 0 2 2008

### **Daily Activity Report**

7" 7. A. ( )

Format For Sundry HUMPBACK T-23-8-17 6/1/2008 To 10/30/2008

7/25/2008 Day: 1

Completion

Rigless on 7/24/2008 - nstall 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6554' & cement top @ 440'. Perforate stage #1. BSL CARB @ 6504- 6510', 6474- 6488' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 80 shots. 157 BWTR. SIFN.

7/31/2008 Day: 2

Completion

Rigless on 7/30/2008 - Stage #1, BSL LS sands. RU BJ Services. 130 psi on well. Frac BSL LS sds w/ 19,340#'s of 20/40 sand in 464 bbls of Lightning 17 fluid. Broke @ 3084 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2862 psi @ ave rate of 22.9 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2500 psi. Leave pressure on well, 621 BWTR. Stage #2, CP4 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 10' perf gun. Set plug @ 6400'. Perforate CP4 sds @ 6296- 6306' w/ 3-1/8" Slick Guns w/ 4 spf for total of 40 shots. RU BJ Services. 2098 psi on well. Frac CP4 sds w/ 50,238#'s of 20/40 sand in 487 bbls of Lightning 17 fluid. Broke @ 2811 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1779 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 1985 psi. Leave pressure on well. 1108 BWTR. Stage #3, CP3 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 6250'. Perforate CP3 sds @ 6216- 24' w/ 3-1/8" Slick Guns w/ 4 spf for total of 32 shots. RU BJ Services. 1650 psi on well. Pressured up to 4200 psi, Would not breakdown RU WL & dump bail acid. RU Bj Services. 1650 psi on well. Frac CP3 sds w/ 25,084#'s of 20/40 sand in 413 bbls of Lightning 17 fluid. Broke @ 3184 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2298 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 2271 psi. Leave pressure on well. SIWFN w/ 1595 BWTR.

8/1/2008 Day: 3

Completion

Rigless on 7/31/2008 - Stage #4, CP.5 & CP1 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 10' & 8' perf gun. Set plug @ 6170'. Perforate CP1 sds @ 6118- 28', CP.5 sds @ 6080- 88' w/ 3-1/8" Slick Guns w/ 4 spf for total of 72 shots. RU BJ Services. 1225 psi on well. Frac CP.5 & CP1 sds w/ 59,665#'s of 20/40 sand in 531 bbls of Lightning 17 fluid. Broke @ 4091 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1794 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 2085 psi. Leave pressure on well. 2051 BWTR. Stage #5, C sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 16' & 18' perf gun. Set plug @ 5550'. Perforate C sds @ 5454- 70', 5418- 36' w/ 3-1/8" Slick Guns w/ 4 spf for total of 136 shots (2 runs). RU BJ Services. 1100 psi on well. Frac C sds w/ 195,522#'s of 20/40 sand in 1327 bbls of Lightning 17 fluid. Broke @ 1184 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/

ave pressure of 1431 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 1705 psi. Leave pressure on well. 3378 BWTR. Stage #6, PB7 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 4940'. Perforate PB7 sds @ 4840- 48' w/ 3-1/8" Slick Guns w/ 4 spf for total of 32 shots. RU BJ Services. 1360 psi on well. Frac PB7 sds w/ 24,798#'s of 20/40 sand in 346 bbls of Lightning 17 fluid. Broke @ 1751 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2333 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #7. ISIP 2592 psi. Leave pressure on well. 3724 BWTR. Stage #7, GB4 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 6' perf gun. Set plug @ 4730'. Perforate GB4 sds @ 4650- 56' w/ 3-1/8" Slick Guns w/ 4 spf for total of 24 shots (2 runs due to misfire on plug). RU BJ Services. 1238 psi on well. Frac GB4 sds w/ 35,701 #'s of 20/40 sand in 419 bbls of Lightning 17 fluid. Broke @ 2209 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1828 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #8. ISIP 1957 psi. Leave pressure on well. 4143 BWTR. Stage #8, GB2 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 10' perf gun. Set plug @ 4620'. Perforate GB2 sds @ 4578-88' w/ 3-1/8" Slick Guns w/ 4 spf for total of 40 shots. RU BJ Services. 1410 psi on well. Frac GB2 sds w/ 48,769#'s of 20/40 sand in 402 bbls of Lightning 17 fluid. Broke @ psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1990 psi @ ave rate of 23.1 BPM. Screened out 29 bbls short of flush. 40,316#'s in perfs, Left 8453#'s in csg. ISIP 3814 psi. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed for 7 hrs & died. Rec. 1260 BTF. SIWFN w/ 3285 BWTR.

8/2/2008 Day: 4

Completion

Western #4 on 8/1/2008 - 550 psi on well. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" chomp bit, Bit sub & 2 7/8" J-55 tbg. Tagged sand @ 4494'. RU Nabors power swivel. C/O to plug @ 4620'. Drilled up in 15 mins. Circulate well clean. SIWFN w/ 3240 BWTR.

8/5/2008 Day: 5

Completion

Western #4 on 8/4/2008 - 20 psi on tbg, 480 psi on csg. Bleed off pressure. RD rig & do dirt work (Rig was sinking). RU. Continue to PU tbg & drill out plugs as follows: Sand @ 4685', Plug @ 4730' (Drilled out in 15 mins), Sand @ 4816', Plug @ 4940' (Drilled out in 20 mins), No sand, Plug @ 5550' (Drilled out in 20 mins), Sand @ 6138', Plug @ 6170' (Drilled out in 20 mins), No sand, Plug @ 6250' (Drilled out in 20 mins), Sand @ 6335', Plug @ 6400' (Drilled out in 15 mins). Circulate well clean. SIWFN w/ 2810 BWTR.

8/6/2008 Day: 6

Completion

Western #4 on 8/5/2008 - 510 psi on tbg, 580 psi on csg. Pumped 40 bbls down tbg. TIH w/ tbg. Tagged @ 6530'. C/O to 6596' (Could not get any deeper). LD 2- jts of tbg. EOT @ 6564'. RU swab equipment. IFL @ sfc. Made 2 runs. Well started flowing. Flowed 190 BTF in 4 hrs. Final oil cut 20%. Pumped 30 bbls of 10# brine wtr down to kill well. TIH w/ tbg to 6596' (No new fill). Circulate well w/ 200 bbls of 10# brine wtr. TOH w/ tbg. LD bit & bit sub. TIH w/ production tbg as follows: BP & collar, 4- jts, PBGA, 2 7/8 nipple, 1- jt, SN, 1- jt, TA & 196 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 16,000#'s of tension @ 6149', SN @ 6195', EOT @ 6360'. NU WH. SIWFN w/ 2466 BWTR.

8/7/2008 Day: 7

Completion

Western #4 on 8/6/2008 - 50 psi on tbg, 0 psi on csg. Flush tbg w/ 60 bbls of wtr. PU & prime up rod pump. PU & RIH w/ "A" grade rod string as follows: "CDI" 2 1/2" X 1 3/4" X 20' RHAC (184" max stroke length), 4- 1 1/2" wt bar, 243- 7/8 guided rods (8 per), 1- 2', 1-8' X 7/8" pony rods, 1 1/2" X 26' Polish rod. Hang head, Space out rods Pressure test to 800 psi w/ unit. RDMOSU. POP @ 1:00 PM w/ 122" SL @ 5 SPM. FINAL REPORT!!!!

englight of the Board of

**Pertinent Files:** Go to File List

SUBMIT IN DUPLICATE\* FORM APPROVED

(See other instructions ons reverse side) OMB NO. 1004-0137

Expires: February 28, 1995

### **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

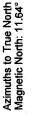
5. LEASE DESIGNATION AND SERIAL NO. UTU-45431

07-12-08													
18. TYPE OF WORK   WILL   WALL   DRY   Other   7. UNIT AGREEMENT MARK   WILL   N. WORK   WALL   DRY   Other   7. UNIT AGREEMENT MARK   WILL   N. WORK   WILL	WELL	COMPL	ETION	OR REC	OMPL	ETION	REPORT A	AND LOG	*	6. IF INDIAN			
DRIVER   NOW   N	1a. TYPE OF WORK	TYPE OF WORK								7 UNIT AGE			
NAME   NOTICE   NAME   NOTICE   NAME   NAM	in the or working		OIL	$\nabla$		DDV	<b>7</b>			7. UNIT AGE			
NOW   NOW   DREFT   DRACK   DRACK   DRACK   DRACK   DRACK   DOME   RESEVE   DOME   DRACK   D	1b. TYPE OF WELL		WELL Other								ге	derai	
Name   Note   Note   Preserve   Park   Rack   Dept   Rack   Rac										8. FARM OR	LEASE NAM	IE. WELL NO.	
Newfield Exploration Company  43.047-39970			DEEPEN		1 1				91				
ADMERS AND TELEPHONE NO.		PERATOR										1-23-8-17	
1. ADDRESS AND TELEPRONEND 1. 401 17th St. Suite 1000 Denver, CO 80202 1. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements) 1. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements) 1. Sec. 23, T8S, R17E 1. Sec. 23, T8S, R17E 1. Sec. 23, T8S, R17E 2. At total depth S - 32 T 08S R17E 2. At total depth S - 32 T 08S R17E 3. At total depth S - 32 T 08S R17E 3. At total depth S - 32 T 08S R17E 3. AT 150 SOR STATE SEC. 23, T8S, R17E 3. AT 150 SOR STATE SEC. 24, AT 150 SOR STATE SEC. 25, T8S, R17E 3. Sec. 23, T8S, R17E 3												7-39970	
LLOCATION OF WELL (Report locations clearly and in accordance with any State requirements.*)   Most Paris	3. ADDRESS AND TELEPI									10. FIELD AN			
AN SWINGE  800' FEL & 600' FEL (SE/SE) Sec. 23, T8S, R17E  An Intel depth  135 FEL & 655 FEL (NESE) Sec. 23, T8S, R17E  An Intel depth  135 FEL & 655 FEL (NESE) Sec. 23, T8S, R17E  An Intel depth  135 FEL & 600' FEL & 60	A LOCATION OF WEL												
1435  FSL & 55  FSL (NE/SE) Sec 23, T8S, R17E   Sec. 23, T8S, R17E   S		LL (Report lo	ations clearly a	nd in accordance  O'FSI & 660	ce with any St	ate requirements SE). Sec. 2.	nts,*) 3 T8S R17F					OCK AND SURVEY	
As total deepth. \$\$-33\$   TORS   FILE					•			=				T8S R17F	
1.5 OATS SPENDED   1.5 OATS SP	•	_				_, •••-	, 100, 1111	_			200. 20,	100, 1172	
1.5 OATS SPENDED   1.5 OATS SP	At total depth S-A	3 TO	185 R1	75 TI4.	API NO.	**	DATE ISSUEI	)		12. COUNTY	OR PARISH	13 STATE	
15. DATE SUDDED   16. DATE T.D. REACHED   17. DATE COAPEL. (Ready to pred.)   18. ELEVATIONS (OF REAL REAL PITCH)   50.07° (KB   17.12-08   1	1444 F	SL 0	048 Ft	ZZ	43-047	-39970							
20. FOR LOUIS BOTHER LOS RUN  21. FRODUCING D'TERVALOS, OF THIS COMPLETION.—TOP, BOTTOM, NAME (MD AND TYD)  22. FRODUCING D'TERVALOS, OF THIS COMPLETION.—TOP, BOTTOM, NAME (MD AND TYD)  23. FRODUCING D'TERVALOS, OF THIS COMPLETION.—TOP, BOTTOM, NAME (MD AND TYD)  24. FRODUCING D'TERVALOS, OF THIS COMPLETION.—TOP, BOTTOM, NAME (MD AND TYD)  25. TYPE ELECTRIC AND OTHER LOGS RUN  26. TYPE ELECTRIC AND OTHER LOGS RUN  27. WAS WELLLO BY  28. SAS DIESCALO  29. CASNO SEZEORADE  20. WEIGHT, LIAFT, DEPTH STRY (MD)  20. SASNO SEZEORADE  20. WEIGHT, LIAFT, DEPTH STRY (MD)  21. LINER RECORD  21. LINER RECORD  22. WAS WELLLO BY  23. CASNO SEZEORADE  24. WEIGHT, LIAFT, DEPTH STRY (MD)  25. TYPE ELECTRIC AND OTHER LOGS RUN  26. TYPE ELECTRIC AND OTHER LOGS RUN  27. CASNO SEZEORADE  28. SOR WEIGHT, LIAFT, DEPTH STRY (MD)  29. LINER RECORD  29. LINER RECORD  20. SAS SEZEORADE  20. SAS SEZEORADE  20. WEIGHT, LIAFT, DEPTH STRY (MD)  20. SAS SEZEORADE  20. SAS SEZEORADE  20. SAS SEZEORADE  21. SAS SEZEORADE  21. SAS SEZEORADE  22. WEIGHT, LIAFT, DEPTH STRY (MD)  23. LINER RECORD  24. SAS SEZEORADE  25. SAS SEZEORADE  26. SAS SEZEORADE  27. SAS SEZEORADE  27. SAS SEZEORADE  27. SAS SEZEORADE  28. SEZEORADE  27. SAS SEZEORADE  27. SAS SEZEORADE  28. SEZEORADE  27. SAS SEZEORADE  28. SEZEORADE  27. SAS SEZE	15. DATE SPUDDED	16. DATE T.D.	REACHED						ETC.)*		_	19. ELEV. CASINGHI	EAD
Comparison   Com							<del></del>				В	<u></u>	
A PRODUCING INTERVAL(S), OF THIS COMPLETION.—OF, BOTTOM, NAME (ND AND TYD)*   Green River 4578'-6510'   22. WAS DIRECTOS SURVEY MADE (ND AND TYD)*   Green River 4578'-6510'   22. WAS DIRECTOS SURVEY MADE (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS SURVEY MADE (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS SURVEY MADE (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)*   CASING RECORD (Report all strings set in well)   22. WAS DIRECTOS (ND AND TYD)	20. TOTAL DEPTH, MD &	- מעד	21. PLUG BAC				•		ROT.	ARY TOOLS		CABLE TOOLS	
22 MAS DIRECTO   SURVEY MADE			1	6596'-//	グー		-			Χ			
Yes   Street   Yes   Yes   Street   Yes	24. PRODUCING INTERVA	AL(S), OF THIS	COMPLETION-	тор, воттом,	NAME (MD A	ND TVD)*		is		· · · · · · · · · · · · · · · · · · ·		25. WAS DIRECTION	IAL
Section   Page				Gr	een Rive	er 4578'	'-6510'					SURVEY MADE	
Dual Induction Guard, SP, Compensated Density Compensated Neutron, GR, Caliper Cement Bond Log   No								a., , .				Yes	
CASING SIZECRADE   WEIGHT, LB./HT.   DEPTINSET (MD)   12-174"   TO SURFACE WITH 150 SX Class "G" cmt	26 TYPE ELECTRIC AND	OTHER LOGS	RUN				4 1 N 1 4	OD 0-11	1/			27. WAS WELL COR	ED
CASHOG SIZEGRADE   WEIGHT, LEMPT   DEPTH SET (MD)   HOLE SIZE   TOP OF CEMENT, CEMENTACE RECORD   AMOUNT FUL		Guard, S	P, Compe	insated De					, Ceme	ent Bond	Log	No	
8-5/8" - J-55	· · · · · · · · · · · · · · · · · · ·	RADE	WEIGHT	IR/FT					EMENT CE	MENTING DE	CORD	AMOUNT BUILD	ED
Size   TOP (MD)   BOTTOM (MD)   SACKS CEMENT*   SCREEN (MD)   SIZE   DEPTH SET (MD)   PACKER SET			24	#	333	(1412)						AMOUNT TOLL	,60
SIZE   TOP (MD)   BOTTOM (MD)   SACKS CEMENT*   SCREEN (MD)   SIZE   DEPTH SET (MD)   PACKER SET													
SIZE   TOP (MD)   BOTTOM (MD)   SACKS CEMENT*   SCREEN (MD)   SIZE   DEPTH SET* (MD)   PACKER SET.						•		1					
2-7/8"   EOT @ TA @ 6360	29.		LIN	ER RECORD				30.		TUBING RE	CORD		
SIZE   SPF/NUMBER   32.   ACID, SHOT, FRACTURE, CEMENT SQUEZZE, ETC.   INTERVAL   SIZE   SPF/NUMBER   32.   ACID, SHOT, FRACTURE, CEMENT SQUEZZE, ETC.   INTERVAL   (MD)   AMOUNT AND KIND OF MATERIAL USED   AMOUNT AND KIND OF MATERIAL USED   CP4) 6296'-6306'   49"   4/80   6574'-6510'   Frac w/ 19,340# 20/40 sand in 487 bbls   (CP4) 6296'-6306'   49"   4/32   6216'-6224'   Frac w/ 25,084# 20/40 sand in 413 bbls   (CP1) 8.51 6118'-28', 6080'-88"   49"   4/72   6080'-6128'   Frac w/ 59,665# 20/40 sand in 1413 bbls   (CP1) 4840'-4848'   49"   4/72   6080'-6128'   Frac w/ 59,665# 20/40 sand in 1327 bbl   (PB7) 4840'-4848'   49"   4/32   4840'-4848'   Frac w/ 24,798# 20/40 sand in 3327 bbl   (GB4) 4650'-4656'   49"   4/24   4650'-4656'   Frac w/ 35,701# 20/40 sand in 346 bbls   (GB4) 4650'-4656'   49"   4/40   4578'-4588'   Frac w/ 48,769# 20/40 sand in 346 bbls   (GB2) 4578'-4588'   49"   4/40   4578'-4588'   Frac w/ 48,769# 20/40 sand in 419 bbls   (GB2) 4578'-4588'   49"   4/40   4578'-4588'   Frac w/ 48,769# 20/40 sand in 402 bbls   (GB2) 4578'-4588'   49"   4/40   4578'-4588'   Frac w/ 48,769# 20/40 sand in 402 bbls   (GB2) 4578'-4588'   PRODUCTION   PRODU	SIZE	TOF	(MD)	BOTTOM (N	MD) SA	CKS CEMENT*	SCREEN (MD)		)			PACKER SET (N	VID)
SI_PERPORATION RECORD (Interval, size and number)   INTERVAL   SIZE   SPF/NUMBER   DEPTH INTERVAL (MD)   AMOUNT AND KIND OF MATERIAL USED						,		2-7/8"			<u> </u>		
INTERVAL   SIZE   SPF/NUMBER   DEPTH INTERVAL (MD)   AMOUNT AND KIND OF MATERIAL USED									<u> </u>				
(BSL CARB) 6504'-6510', 6474'-6488' .49"		. ,	size and number	•	cn	in arti en artiste							
(CP4) 6296'-6306' .49" 4/40 6296'-6306' Frac w/ 50,238# 20/40 sand in 487 bbls (CP3) 6216'-6224' .49" 4/32 6216'-6224' Frac w/ 25,084# 20/40 sand in 413 bbls (CP1 8.5) 6118'-28', 6080'-88" .49" 4/72 6080'-6128' Frac w/ 59,665# 20/40 sand in 531 bbls (C) 5454'-70, 5418'-36' .49" 4/136 5418'-5470' Frac w/ 195,522# 20/40 sand in 1327 bbls (CP1 8.6) 4860'-4656' .49" 4/32 4840'-4848' Frac w/ 24,798# 20/40 sand in 1327 bbls (CP1 8.6) 4860'-4656' .49" 4/24 4650'-4656' Frac w/ 35,701# 20/40 sand in 149 bbls (CP1 8.6) 4860'-4656' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (CP1 8.6) 4860'-4656' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (CP1 8.6) 4860'-4656' Frac w/ 48,			6474' 6499'		SP				+			<del></del>	fluid
(CP3) 6216'-6224' .49" 4/32 6216'-6224' Frac w/ 25,084# 20/40 sand in 413 bbls (CP1 & 5) 6118'-28', 6080'-88" .49" 4/72 6080'-6128' Frac w/ 59,665# 20/40 sand in 531 bbls (C) 5454'-70', 5418'-36' .49" 4/136 5418'-5470' Frac w/ 195,522# 20/40 sand in 1327 bbl (PB7) 4840'-4848' .49" 4/32 4840'-4848' Frac w/ 24,798# 20/40 sand in 346 bbls (GB4) 4650'-4656' .49" 4/24 4650'-4656' Frac w/ 35,701# 20/40 sand in 419 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' PRODUCTION  DATE FIRST PRODUCTION  DATE FIRST PRODUCTION  DATE FIRST PRODUCTION  DATE OF TEST  HOURS TESTED  CHOKE SIZE  PRODN. FOR OIL-BBLS.  GAS-MCF.  WATER-BBL.  GAS-OIL RATIO  TEST WITNESSED A- OIL GRAVITY-API (CORR.)  44. DISPOSITION OF GAS (Sold, used for fisel, vented, etc.)  Used for Fuel  TEST WITNESSED DIV. OF OIL, GAS & MIN DATE  PRODUCTION TILLE  Production Tech  DIV. OF OIL, GAS & MIN DATE  9/16/200	(BOL CAND) OC	<u>_</u>			·								
(CP1 8.5) 6118'-28', 6080'-88" .49" 4/72 6080'-6128' Frac w/ 59,665# 20/40 sand in 531 bbls (C) 5454'-70', 5418'-36' .49" 4/136 5418'-5470' Frac w/ 195,522# 20/40 sand in 1327 bbls (PB7) 4840'-4848' .49" 4/32 4840'-4848' Frac w/ 24,798# 20/40 sand in 346 bbls (GB4) 4650'-4656' .49" 4/24 4650'-4656' Frac w/ 35,701# 20/40 sand in 419 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20/40 sand in 327 bbls (GB2) 4578'-4588' Frac w/ 48,769# 20	<u> </u>								<u> </u>				
(C) 5454'-70', 5418'-36' .49" 4/136 5418'-5470' Frac w/ 195,522# 20/40 sand in 1327 bbl:  (PB7) 4840'-4848' .49" 4/32 4840'-4848' Frac w/ 24,798# 20/40 sand in 346 bbls  (GB4) 4650'-4656' .49" 4/24 4650'-4656' Frac w/ 35,701# 20/40 sand in 419 bbls  (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls  33.* PRODUCTION  DATE FIRST PRODUCTION  O8-06-08 PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)  O8-12" x 1-3/4" x 20' RHAC SM Plunger Pump  PRODUCING  O8-06-08 OLI-BBL. GAS-MCF. WATER-BBL. GAS-OIL RATIO  30 day ave  FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE  34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Used for Fuel  TEST WITNESSEDED  TEST WITNESSEDED  TEST WITNESSEDED  TEST WITNESSEDED  TEST WITNESSEDED  DIV. OF OIL, GAS & MIN DATE Production Tech  DIV. OF OIL, GAS & MIN DATE Production Tech	(CD1 &									·			
(PB7) 4840'-4848' .49" 4/32 4840'-4848' Frac w/ 24,798# 20/40 sand in 346 bbls (GB4) 4650'-4656' .49" 4/24 4650'-4656' Frac w/ 35,701# 20/40 sand in 419 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls (GB2) 4578'-4588' PRODUCTION  DATE FIRST PRODUCTION  08-06-08 PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)  08-06-08 2-1/2" x 1-3/4" x 20' RHAC SM Plunger Pump PRODUCING PRODUCING OT TEST PERIOD OT TEST PERIOD TEST WITNESSED TEST WIT									+	<del></del>			
(GB4) 4650'-4656' .49" 4/24 4650'-4656' Frac w/ 35,701# 20/40 sand in 419 bbls  (GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls  33.*  PRODUCTION  DATE FIRST PRODUCTION  DATE OF TEST  OB-06-08  DATE OF TEST  HOURS TESTED  CHOKE SIZE  PRODN, For OIL-BBLS.  GAS-MCF.  WATER-BBL.  GAS-OIL RATIO  TEST WITNESSED COLORS  30 day ave  CALCULATED 24-HOUR RATE  24-HOUR RATE  34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Used for Fuel  TEST WITNESSED COLORS  DIV. OF OIL, GAS & MIN DATE  Production Tech  DIV. OF OIL, GAS & MIN DATE  P/16/200	<del></del>								+	<del></del>			
(GB2) 4578'-4588' .49" 4/40 4578'-4588' Frac w/ 48,769# 20/40 sand in 402 bbls  PRODUCTION  DATE FIRST PRODUCTION  DATE OF TEST  DATE OF TEST  HOURS TESTED  CHOKE SIZE  PRODN. FOR  TEST PERIOD  TEST PERIOD  TEST PERIOD  GAS-OIL RATIO  30 day ave  CALCULATED  24-HOUR RATE  34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Used for Fuel  TEST PERIOD  TITLE  Production Tech  TITLE  Production Tech  PRODUCTION  WELL STATUS (Producing or spending or spe								44 4 4 4	+			<del> </del>	
PRODUCTION  DATE FIRST PRODUCTION  08-06-08  2-1/2" x 1-3/4" x 20' RHAC SM Plunger Pump  DATE OF TEST  HOURS TESTED  CHOKE SIZE  PRODN. FOR TEST PRODUCTION  30 day ave  FLOW. TUBING PRESS.  CASING PRESSURE  CALCULATED 24-HOUR RATE >  CALCULATED 24-HOUR RATE >  SEP 2 3 2008  CASING PRESSURE  CALCULATED 35. LIST OF ATTACHMENTS  CASING PRESSURE  CALCULATED 36. I hereby certify that the local-first and attached information is complete and correct as determined from all available records SIGNED  DIV. OF Oil, GAS & MiN DATE  Production Tech  DIV. OF Oil, GAS & MiN DATE  9/16/200					<del></del>							and the second s	
PRODUCTION METHOD (Flowing, gas lift, pumpingsize and type of pump)  OATE FIRST PRODUCTION  08-06-08  2-1/2" x 1-3/4" x 20' RHAC SM Plunger Pump  PRODUCING  PRODUC		(GBZ)	4370-4300	.49		4/40	4378	-4000	Flac	W/ 40,7031	20/40 5	110 111 402 bbis 11	luid
PRODUCTION METHOD (Flowing, gas lift, pumpingsize and type of pump)  OATE FIRST PRODUCTION  08-06-08  2-1/2" x 1-3/4" x 20' RHAC SM Plunger Pump  PRODUCING  PRODUC	22 *	· · · · · · · · · · · · · · · · · · ·				PPONI	CTION		<u> </u>	<del></del>		· · · · · · · · · · · · · · · · · · ·	
O8-06-08  2-1/2" x 1-3/4" x 20' RHAC SM Plunger Pump  PRODUCING  DATE OF TEST  HOURS TESTED  CHOKE SIZE  PRODN. FOR OIL-BBLS.  GAS-MCF.  WATER-BBL.  GAS-OIL RATIO  TEST PERIOD  TOUR TUBING PRESS.  CASING PRESSURE  CALCULATED 24-HOUR RATE >  St. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Used for Fuel  SEP 2 3 2008  TITLE  Production Tech  DIV. OF OIL, GAS & MIN DATE  9/16/200		N	PRODUCTIO	N METHOD (Flo	wing, gas lift, pu				16.		WELL ST	ATUS (Producing or sh	iut-in)
30 day ave  TEST PERIOD  SLOW. TUBING PRESS.  CASING PRESSURE  CALCULATED 24-HOUR RATE  24-HOUR RATE  LIST OF ATTACHMENTS  SEP 2 3 2008  SIGNED  TEST WITNESSED BY  T	08-06-0	)8						ınger Pump	١.				
30 day ave — 50 30 100 600 FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE 24-HOUR RATE 24-HOUR RATE 24-HOUR RATE 24-HOUR RATE 35. LIST OF ATTACHMENTS  SEP 2 3 2008  SIGNED DIV. OF OIL, GAS & MIN 97/16/200	DATE OF TEST	HO	URS TESTED	CHOKE SIZ			OILBBLS.	GASMCF.	WATE	RBBL.		GAS-OIL RATIO	
CASING PRESSURE CALCULATED OIL-BBL. WATER-BBL. OIL GRAVITY-API (CORR.)  44. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Used for Fuel  S5. LIST OF ATTACHMENTS  G6. I hereby certify that the torceding and strached information is complete and correct as determined from all available records SIGNED  TITLE  Production Tech  DIV. OF OIL, GAS & MIN DATE 9/16/200	30 day aye	e		ŀ	1531	i i	50	J 30	-	100		600	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Used for Fuel  SEP 2 3 2008  36. I hereby certify that the tolerafind and stracked information is complete and correct as determined from all available records SIGNED  TITLE  Production Tech  DIV. OF Oil, GAS & Miln DATE 9/16/200			SING PRESSURI	CALCULAT	ED	OIL-BBL.	· · · · · · · · · · · · · · · · · · ·	: <b>!</b>	WATER-		OIL GRAVIT	A COLOR OF THE PARTY OF THE PAR	·
Used for Fuel  SEP 2 3 2008  SEP 2 3 2008  SIGNED  TEST WITNESSED BY				24-HOUR R	ATE		1		ı				
Used for Fuel  SEP 2 3 2008  SIGNED  Used for Fuel  SEP 2 3 2008  DIV. OF OIL, GAS & MIN Production Tech  DATE 9/16/200					>				<u> </u>		DEC	EIVED.	
SEP Z 3 Z008  36. I hereby certify that the foresdired and strached information is complete and correct as determined from all available records  SIGNED  TITLE  Production Tech  DIV. OF OIL, GAS & MIN DATE 9/16/200	34. DISPOSITION OF GAS	(Sold, used for	fuel, vented, etc.)	Heo	d for Fu	اد				TEST WITNES	SSED BY	Table II vs (remain and	
36. I hereby certify that the forestfind and strached information is complete and correct as determined from all available records  SIGNED  TITLE  Production Tech  DATE  9/16/200	S LIST OF ATTACHMEN	NTS /		036	a ioi i ue	<u></u>		<del>,</del>			SEP	2 3 2008	
SIGNED Production 1ech DATE 9/16/200			A/I										
SIGNED Production 1ech DATE 9/16/200	36. I hereby certify that t	the topological	and attached in	formation is co	mplete and co	rrect as detern	nined from all availal	ole records		n	IV OF O	GAS & MINIT	NG
	SIGNED /	/ //VU	///			TITLE	P	roduction Te	ech	ں 	DATE	9/16/200	8
Jextri Park/ //	Jentri P	ark/	// 0								<u> </u>		JF



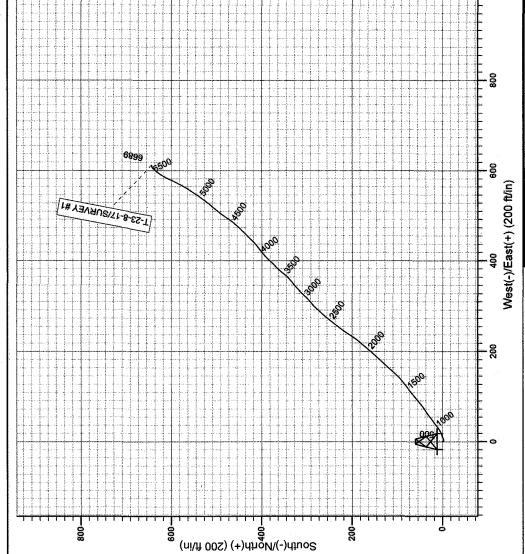
Project: USGS Myton SW (UT) Site: SECTION 23 Well: T-23-8-17 Wellbore: Wellbore #1 Design: SURVEY #1 FINAL SURVEY REPORT





Magnetic Field Strength: 52628.0snT Dip Angle: 65.94° Date: 7/25/2008 Model: IGRF200510





1500-

True Vertical Depth (1500 fVin)



Vertical Section at 43.43° (1500 ft/in)

T-23-8-17/SURVEY #1

7500

0009

# Design: SURVEY #1 (T-23-8-17/Wellbore #1)

Date: 14:03, July 25 2008 Created By: Jim hudson

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUALFIELD DATA.



# **NEWFIELD EXPLORATION**

USGS Myton SW (UT) SECTION 23 T-23-8-17

Wellbore #1

Design: SURVEY #1

# **Standard Survey Report**

25 July, 2008





### **Hathaway Burnham**

Survey Report



Company:

**NEWFIELD EXPLORATION** 

Project:

USGS Myton SW (UT)

Site: Well: **SECTION 23** T-23-8-17

Wellbore: Design:

Wellbore #1 SURVEY#1 Local Co-ordinate Reference:

Well T-23-8-17

**TVD Reference:** MD Reference:

T-23-8-17 @ 5079.0ft (KB) T-23-8-17 @ 5079.0ft (KB)

North Reference:

**Survey Calculation Method:** 

Minimum Curvature

EDM 2003.21 Single User Db

**Project** 

USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System:

US State Plane 1983

System Datum:

Database:

Mean Sea Level

Geo Datum:

North American Datum 1983

Map Zone:

Utah Central Zone

Using geodetic scale factor

Site

Well

SECTION 23, SEC 23 T8S, R17E

Site Position:

Lat/Long

Northing:

7,210,510.62ft

Latitude:

40° 6' 17.100 N

From:

Easting:

2,066,656.60ft

Longitude:

109° 58' 33.810 W

**Position Uncertainty:** 

0.0 ft

Slot Radius:

**Grid Convergence:** 

0.98°

T-23-8-17, SHL LAT: 40 05' 54.50" LONG: 109 58' 00.09"

**Well Position** 

0.0 ft +N/-S 0.0 ft +E/-W

Northing: Easting:

7,208,268.97 ft 2,069,315.36 ft

11.64

Latitude: Longitude: 40° 5' 54.500 N

**Position Uncertainty** 

0.0 ft

Wellhead Elevation:

**Ground Level:** 

65.94

109° 58' 0.090 W 0.0ft

Wellbore

Wellbore #1

**Magnetics** 

**Model Name** 

IGRF200510

Sample Date

7/25/2008

**Declination** (°)

**Dip Angle** (°)

Field Strength

(nT)

52,628

Design

SURVEY#1

**Audit Notes:** 

Version:

1.0

Phase:

**ACTUAL** 

0.0

Tie On Depth:

0.0

**Vertical Section:** 

Depth From (TVD)

(ft)

5,400.0

+N/-S (ft)

+E/-W (ft)

0.0

Direction (°)

43.43

Date 7/25/2008

**Survey Program** From (ft)

To (ft)

Survey (Wellbore)

**Tool Name** 

Description

446.0

6,689.0 Survey #1 (Wellbore #1)

MWD

MWD - Standard

-,									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
446.0	0.60	160.80	446.0	-2,2	0.8	-1.1	0.13	0.13	0.00
537.0	2.00	81.80	537.0	-2.4	2.5	0.0	2.17	1.54	-86.81
630.0	3.60	65.80	629.9	-1.0	6.8	3.9	1.90	1.72	-17.20
722.0	4.90	72.80	721.6	1.3	13.2	10.0	1.52	1.41	7.61
814.0	6.10	63.90	813.2	4.7	21.3	18.0	1.60	1.30	-9.67
908.0	7.30	53.00	906.5	10.4	30.6	28.6	1.85	1.28	-11.60
1,002.0	8.00	53.40	999.7	17.9	40.6	40.9	0.75	0.74	0.43
1,095.0	9.90	54.10	1,091.6	26.5	52.2	55.2	2.05	2.04	0.75
1,188.0	11.90	57.60	1,182.9	36.3	66.8	72.3	2.26	2.15	3.76
1,282.0	13.70	51.00	1,274.6	48.5	83.7	92.7	2.46	1.91	-7.02
1,376.0	13.80	50.90	1,365.9	62.6	101.0	114.9	0.11	0.11	-0.11
1.470.0	13.50	51.20	1.457.2	76.5	118.3	136.9	0.33	-0.32	0.32



### **Hathaway Burnham**

Survey Report



Company:

**NEWFIELD EXPLORATION** 

Project:

USGS Myton SW (UT)

Site: Well: SECTION 23

Wellbore: Design:

Wellbore #1

T-23-8-17

SURVEY#1

**Local Co-ordinate Reference:** 

Well T-23-8-17

TVD Reference: MD Reference:

T-23-8-17 @ 5079.0ft (KB) T-23-8-17 @ 5079.0ft (KB)

North Reference:

**Survey Calculation Method:** 

Minimum Curvature

Database:

EDM 2003.21 Single User Db

Surve	y
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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,563.0	13.50	50.70	1,547.6	90.2	135.1	158.4	0.13	0.00	-0.54
1,657.0	14.50	42.10	1,638.8	105.9	151.5	181.1	2.45	1.06	-9.15
1,750.0	13.90	42.90	1,729.0	122.7	166.9	203.9	0.68	-0.65	0.86
1,843.0	13.90	41.90	1,819.3	139.2	182.0	226.2	0.26	0.00	-1.08
1,937.0	14.00	42.30	1,910.5	156.0	197.2	248.9	0.15	0.11	0.43
2,031.0	13.30	40.30	2,001.9	172.7	211.8	271.0	0.90	-0.74	-2.13
2,125.0	12.70	37.80	2,093.4	189.1	225.1	292.1	0.87	-0.64	-2.66
2,217.0	13.20	32.00	2,183.1	206.0	236.9	312.5	1.51	0.54	-6.30
2,311.0	12.00	38.00	2,274.8	222.8	248.6	332.7	1.89	-1.28	6.38
2,404.0	11.30	37.80	2,365.9	237.6	260.1	351.4	0.75	-0.75	-0.22
2,497.0	10.40	35.30	2,457.3	251.7	270.6	368.8	1.09	-0.97	-2.69
2,591.0	10.20	44.50	2,549.8	264.5	281.3	385.5	1.76	-0.21	9.79
2,685.0	9.30	41.00	2,642.4	276.2	292.1	401.4	1.15	-0.96	-3.72
2,779.0	8.50	48.20	2,735.3	286.6	302.3	415.9	1.46	-0.85	7.66
2,873.0	7.80	50.40	2,828.3	295.3	312.4	429.2	0.82	-0.74	2.34
2,967.0	8.70	41.50	2,921.4	304.7	322.0	442.6	1.66	0.96	-9.47
3,061.0	8.70	45.70	3,014.3	314.9	331.8	456.8	0.68	0.00	4.47
3,154.0	8.00	46.60	3,106.3	324.3	341.6	470.3	0.77	-0.75	0.97
3,248.0	7.20	51.70	3,199.5	332.4	350.9	482.7	1.11	-0.85	5.43
3,342.0	7.10	50.70	3,292.7	339.8	360.0	494.3	0.17	-0.11	-1.06
3,436.0	6.10	37.10	3,386.1	347.4	367.6	505.0	1.97	-1.06	-14.47
3,529.0	8.00	39.20	3,478.4	356.4	374.6	516.4	2.06	2.04	2.26
3,623.0	7.60	45.60	3,571.5	365.8	383.2	529.1	1.02	-0.43	6.81
3,717.0	8.80	45.10	3,664.6	375.2	392.7	542.5	1.28	1.28	-0.53
3,779.0	9.70	43.80	3,725.8	382.4	399.7	552.5	1.49	1.45	-2.10
3,810.0	9.90	44.00	3,756.3	386.2	403.4	557.7	0.65	0.65	0.65
3,841.0	10.30	45.50	3,786.8	390.0	407.2	563.2	1.54	1.29	4.84
3,873.0	9.50	45.40	3,818.4	393.9	411.1	568.7	2.50	-2.50	-0.31
3,904.0	8.90	49.40	3,849.0	397.2	414.8	573.6	2.83	-1.94	12.90
3,935.0	8.10	51.30	3,879.6	400.2	418.3	578.2	2.73	-2.58	6.13
3,966.0	8.70	53.80	3,910.3	402.9	421.9	582.6	2.27	1.94	8.06
3,997.0	8.70	53.80	3,940.9	405.7	425.7	587.2	0.00	0.00	0.00
4,029.0	9.10	52.40	3,972.5	408.7	429.6	592.1	1.42	1.25	-4.38
4,060.0	9.60	50.40	4,003.1	411.8	433.6	597.1	1.92	1.61	-6.45
4,091.0	10.10	48.20	4,033.7	415.3	437.6	602.4	2.02	1.61	-7.10
4,122.0	10.00	45.60	4,064.2	419.0	441.5	607.8	1.50	-0.32	-8.39
4,154.0	10.00	43.80	4,095.7	422.9	445.4	613.3	0.98	0.00	-5.63
4,185.0	10.10	43.70	4,126.2	426.8	449.2	618.8	0.33	0.32	-0.32
4,216.0	9.80	45.20	4,156.8	430.6	452.9	624.1	1.28	-0.97	4.84
4,247.0	10.10	44.50	4,187.3	434.4	456.7	629.5	1.04	0.97	-2.26
4,279.0	10.60	45.00	4,218.8	438.5	460.8	635.2	1.59	1.56	1.56
4,310.0	11.30	44.50	4,249.2	442.7	464.9	641.1	2.28	2.26	-1.61
4,341.0	11.20	44.40	4,279.6	447.0	469.1	647.1	0.33	-0.32	-0.32
4,372.0	10.60	46.90	4,310.1	451.1	473.3	653.0	2.46	-1.94	8.06
4,466.0	11.00	36.20	4,402.4	464.3	484.9	670.5	2.17	0.43	-11.38
4,559.0	9.80	34.30	4,493.9	478.0	494.6	687.1	1.34	-1.29	-2.04
4,653.0	9.70	36.70	4,586.5	490.9	503.9	702.9	0.45	-0.11	2.55
4,747.0	10.90	41.50	4,679.0	503.9	514.5	719.7	1.57	1.28	5.11
4,840.0	10.30	38.10	4,770.4	517.1	525.5	736.7	0.93	-0.65	-3.66
4,934.0	10.50	36.50	4,862.9	530.6	535.7	753.6	0.37	0.21	-1.70
5,028.0	9.90	34.90	4,955.4	544.1	545.4	770.1	0.71	-0.64	-1.70
5,122.0	8.70	33.60	5,048.2	556.6	554.0	785.1	1.30	-1.28	-1.38
5,247.0	8.00	29.80	5,171.8	572.0	563.6	802.9	0.71	-0.56	-3.04
5,278.0	7.60	28.70	5,202.5	575.7	565.6	806.9	1.38	-1.29	-3.55



### **Hathaway Burnham**

Survey Report



Company:

**NEWFIELD EXPLORATION** 

Project:

USGS Myton SW (UT)

Site: Well: SECTION 23 T-23-8-17

Wellbore: Design:

Wellbore #1 SURVEY#1 Local Co-ordinate Reference:

Well T-23-8-17

TVD Reference: MD Reference:

T-23-8-17 @ 5079.0ft (KB) T-23-8-17 @ 5079.0ft (KB)

North Reference:

True

**Survey Calculation Method:** 

Minimum Curvature

Database:

EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,309.0	7.30	28.20	5,233.3	579.2	567.5	810.8	0.99	-0.97	-1.61
5,403.0	6.90	28.10	5,326.6	589.5	573.0	822.0	0.43	-0.43	-0.11
5,482.3	6.14	26.37	5,405.3	597.5	577.1	830.7	0.99	-0.96	-2.18
T-23-8-17	ГGT								
5,497.0	6.00	26.00	5,420.0	598.9	577.8	832.2	0.99	-0.95	-2.51
5,591.0	5.00	24.40	5,513.5	607.0	581.7	840.7	1.08	-1.06	-1.70
5,684.0	4,50	28.70	5,606.2	613.9	585.1	848.1	0.66	-0.54	4.62
5,778.0	4.20	31.30	5,699.9	620.1	588.7	855.0	0.38	-0.32	2.77
5,872.0	4.00	33.50	5,793.7	625.8	592.3	861.6	0.27	-0.21	2.34
5,965.0	2.90	34.80	5,886.5	630.4	595.4	867.1	1.19	-1.18	1.40
6,059.0	2.40	40.70	5,980.4	633.8	598.0	871.4	0.61	-0.53	6.28
6,152.0	2.20	39.90	6,073.4	636.7	600.4	875.2	0.22	-0.22	-0.86
6,247.0	1.90	43.90	6,168.3	639.2	602.7	878.6	0.35	-0.32	4.21
6,341.0	1.70	47.70	6,262.2	641.3	604.8	881.5	0.25	-0.21	4.04
6,489.0	1.10	60.40	6,410.2	643.5	607.7	885.1	0.45	-0.41	8.58
6,590.0	1.20	84.30	6,511.2	644.1	609.6	886.8	0.48	0.10	23.66
6,634.0	1.30	100.90	6,555.2	644.0	610.5	887.4	0.85	0.23	37.73
6,689.0	1.30	100.90	6,610.2	643.8	611.7	888.1	0.00	0.00	0.00

### **Design Targets**

**Target Name** 

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
T-23-8-17 TGT	0.00	0.00	5,400.0	636.9	602.9	7,208,916.08	2,069,907.23	40° 6' 0.794 N	109° 57' 52.331 W	

- actual wellpath misses by 47.4ft at 5482.3ft MD (5405.3 TVD, 597.5 N, 577.1 E)

- Circle (radius 75.0)

Checked By:	Approved By:	Date:
Checked by.	Approved by	Date.